

# Digital Video Disc Player Owner's Manual

**DVP320**



**Important!**  
Return your  
Warranty  
Registration Card  
within 10 days.  
See why  
inside.



## **NEED HELP? CALL US!**

PHILIPS REPRESENTATIVES ARE READY TO HELP YOU WITH ANY QUESTIONS ABOUT YOUR NEW PRODUCT. WE CAN GUIDE YOU THROUGH CONNECTIONS, FIRST-TIME SETUP, AND ANY OF THE FEATURES. WE WANT YOU TO START ENJOYING YOUR NEW PRODUCT RIGHT AWAY.

**CALL US BEFORE YOU CONSIDER  
RETURNING THE PRODUCT.  
1-800-531-0039**

**OR VISIT US ON THE WEB AT [WWW.PHILIPS.COM](http://WWW.PHILIPS.COM)**



# **PHILIPS**

# Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

## Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

## Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

## Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.



# PHILIPS

**Congratulations on your purchase, and welcome to the "family!"**

## Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network. Most importantly, you can count on our uncompromising commitment to your total satisfaction. All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford  
President and Chief Executive Officer

**P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!**



## Know these safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, fully insert.

**ATTENTION:** Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

## For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_  
Serial No. \_\_\_\_\_

Visit our World Wide Web Site at <http://www.philips.com>

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## 4 Safety Information

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**Warning:** To prevent fire or shock hazard, do not expose this equipment to rain or moisture.  
**Federal Communications Commission (FCC) Warning:** Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

### Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

**CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

**CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. THE BEAM IS LOCATED INSIDE, NEAR THE DECK MECHANISM.**

### Special Information for Canadian Users

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### Radio/TV Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and the receiver.
- 3) Connect the equipment to an outlet on a circuit other than that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

### Copyright Protection

Unauthorized copying, broadcasting, public performance and lending of Discs are prohibited. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

### Environmental Information

Your system has materials that can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries, and old equipment.

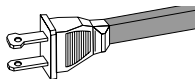
### Declaration of Conformity

Model Number: DVP320  
Trade Name: Philips  
Responsible Party: Philips Consumer Electronics  
P.O. Box 14810, Knoxville, TN 37914-1810  
(865) 521-4316




## Safety Information (cont'd) 5

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.



**AC Polarized Plug**

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Battery usage **CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:
  - Install **all** batteries correctly, + and - as marked on the unit.
  - Do not mix batteries (**old** and **new** or **carbon** and **alkaline**, etc.).
  - Remove batteries when the unit is not used for a long time.

## 6 Introduction

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### Welcome!

This Digital Video Disc Player enables you to use the endless features on Digital Video Discs (DVDs). The possibilities are limited only by your choices and the materials on the DVD. To get the most from this Player, read this manual carefully. It describes how you can access these features.

### Features

- Closed Captions
- Disc Lock
- Language options for Audio, Subtitles, and Disc Menus
- MP3 and JPEG file play with menu Navigator
- Parental controls
- Paused/Fast/Slow/Frame-by-Frame/Zoomed/Reduced play
- Progressive Scan
- Repeat and Repeat A-B Play
- Screen Saver
- Smart Play
- Virtual Remote

### Package Contents

- DVD Player
- Remote control with lithium battery
- One set of audio cables (white/red)
- One video cable (yellow)
- AC power cord
- This Owner's manual
- Quick-Use Guide
- Registration materials

### Safety Information

- Do not expose the system to excessive moisture, rain, sand, heat, or humidity.
- Place the Player on a firm, flat surface.
- Keep the Player away from domestic heating equipment and direct sunlight.
- Allow about one inch of space around the Player for ventilation. Leave room above the Player for the Disc compartment lid to open completely.
- If the Player is brought from a cold to warm location, or is placed in a very damp room, moisture may condense on the lens inside the Player. If this occurs, the Player will not operate normally. Leave the power on for about one hour with no Disc in the Player until normal play is possible.
- The mechanical parts of the Player contain self-lubricating bearings and must not be oiled or lubricated.
- When the Player is off, it is still consuming some power. To disconnect the Player from power completely, disconnect the power cord.
- Always close the Disc compartment lid on top of the Player to keep dust off the lens (which is inside the Disc compartment).
- Do not touch the lens inside the Player's Disc compartment. A damaged lens could hinder Disc playability. Electrostatic discharge could damage the unit permanently.
- When you open the Disc compartment lid, the Disc will continue to spin for a few seconds. Do not allow children to remove the Disc. Wait for the Disc to stop spinning completely before you reach to remove the Disc or touch the Disc.

### Cleaning Discs

- Clean a Disc or the Player's Disc compartment with a soft dry cloth. Do not use a solution containing alcohol, ammonia or abrasives. Wipe a Disc from the center to the edge in a straight line. Do not wipe a Disc in a circular pattern.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for analog discs.



### Playable Discs

This DVD Player will play the following types of Discs.



DVD (Digital Video Disc)



DVD+R and DVD+RW  
(DVD+Recordable and  
DVD+Rewritable)



Audio CD (Compact Disc  
Digital Audio)



Finalize these Discs when you  
record them. Otherwise, you  
cannot play them on this  
Player.



CD-R and CD-RW  
(CD-Recordable and  
CD-Rewritable)



Finalize CD-Rs when you  
record them. Otherwise, you  
cannot play them on this  
Player.



Video CD



Super Video CD

### Region Codes and Color Systems

DVDs must meet the requirements for Region Codes and Color Systems before you can use them with this Player. DVDs must be labeled for **ALL regions or for Region 1** in order to play on this Player. You cannot play Discs that are labeled for other regions. These symbols must appear on your DVDs, or you cannot play them in this Player.



The number inside the globe refers to a region of the world. Region 1 represents the United States, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia.

Furthermore, recordings are made according to different color systems throughout the world. The most common color systems are NTSC (which is used primarily in the United States and North America), PAL, and SECAM.

This DVD Player is compatible with **NTSC and PAL**. Make sure the Discs you play were recorded in NTSC or PAL and your TV is NTSC or PAL compatible. You must set the Player's TV TYPE to match your TV and your DVDs. See page 38. The color system of the DVD may appear on the DVD or its case.

### DVD Player Upgrades

If a DVD does not play properly, contact Philips at 1-800-531-0039 for assistance. Due to the inconsistency of Disc formats provided by various Disc manufacturers, this Player may require a playability enhancement. As DVD technology has advanced, these enhancements have become both common and easy to complete.

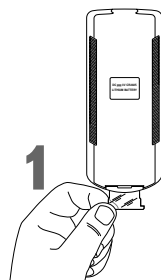
### Available Disc Features...

Features in this manual may not be available on every Disc. If the feature is not available, you cannot use the Player to make it available. The  $\emptyset$  will appear on the TV screen if you try a feature that is not available. Some features are only available during play, while others can be accessed only when play is stopped. Stop or start play, then try the feature again.

## 8 Remote Control Setup, General Information

### Remote Control Setup

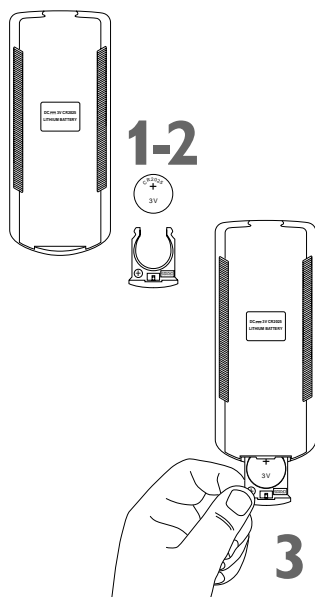
- 1 When you purchase this Player, a thin piece of plastic is in the battery compartment of the remote control. This keeps the lithium battery fresh. You must remove the plastic before the remote will work. To do so, simply **pull the plastic out**.



### Battery Replacement

A lithium battery is supplied with the remote control. You may need to replace it eventually.

- 1 Use your fingernail or a pointed, non-metallic object to release the battery tray. Slowly pull the tray out of the remote.
- 2 Remove the old battery. Replace it with a CR2025 lithium battery only. Using another battery may present a risk of fire or explosion. Make sure the "+" on the battery faces up when it is in the tray.
- 3 Slowly slide the tray into the remote until you hear it click into place.



**BATTERY CAUTION:** Risk of fire, explosion, and burns. Do not recharge, disassemble, heat above 100°C, or incinerate. The lithium battery may present a fire or chemical burn hazard if mistreated.

Promptly dispose of used batteries. Do not dispose of the battery in a fire. Keep the battery away from children.

### Using the Remote Control

When using the remote to operate the Player, aim the remote at the IR (Infrared) sensor on the top/front of the Player (not at the TV). See *page 17*.

### DVD Disc Menus...

Some explanations in this manual describe the DVD Disc Menus, which vary among DVDs. Movie producers set these menus; not all DVDs have menus. If the DVD has a menu, access it by pressing DISC MENU on the remote. See *page 19*.

### DVD Player Menus...

Some instructions explain how to use the DVD Player's Setup menu to set features of the Player or the Disc. You get to the Setup Menu by pressing SYSTEM MENU on the remote. Even if a feature is set in the Player's menu, it will not be available if the current Disc does not include that feature.

### Determining the best possible connection...

Your existing equipment, especially your TV, determines your hookup possibilities. These guidelines describe which options give the best picture and sound.

- ★★★★ Component Video (red/green/blue jacks) provides the best picture quality. See page 12. If your TV accepts Progressive Scan through the Component Video connection, set PROGRESSIVE to ON at the Player. See page 39.
- ★★★ Composite Video (a yellow Video jack) provides good picture quality. See page 11.
- ★★ **Your TV may have only an RF-style jack, usually labeled Antenna In or 75 ohm or RF In. You will need an RF modulator in order to view the DVD Player at your TV.** See page 10.
- ★★★★ Digital audio has the clearest sound, but you must have a digital Stereo. Connect the Player's COAXIAL Out jack to your Stereo. See page 14.
- ★★★ For Stereo sound, connect the Player's white/red left/right AUDIO Out jacks to Audio In jacks on your Stereo, TV, or RF modulator. See pages 10-13.

### Before you begin...

- Refer to the manuals of your TV, Stereo, or RF modulator. Note the style of jacks and connectors on the other equipment. Determine how to choose different Audio and Video In channels/sources on your other equipment so you can see and hear the DVD Player on the TV, Stereo, etc.
- Disconnect all equipment from the power outlets. Connect equipment to power only after hooking up everything. Never make or change connections with equipment connected to power.

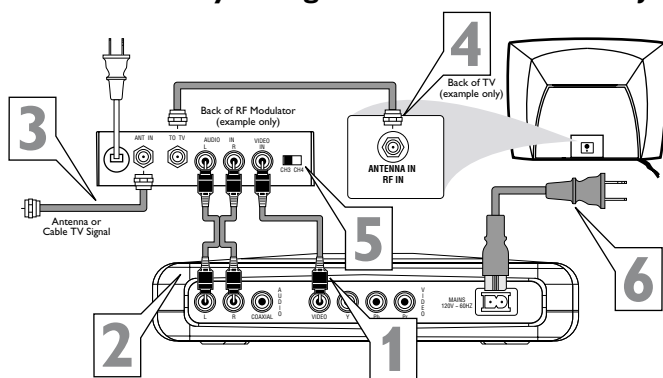
### Remember...

- Connect the Player directly to a TV. For example, do not connect the Player to a VCR, then connect the VCR to a TV. This may distort the picture and sound. Your VCR may have a copy protection system that could distort the DVD image or prevent Disc play.
  - Set the TV to the correct Video In channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2 or External In, etc. These channels are often near channel zero (0). See your TV manual for details. Go to your lowest TV channel (01 or 02) and change TV channels down until you see the DVD screen on the TV. Or, your TV's remote may have a button or switch that selects Video In channels. Check your TV manual for details.
- If you are using an RF modulator, set the TV to channel 3 or 4.**
- Set the Stereo to the correct channel or "source" mode.
  - Do not connect the Player's AUDIO Out jacks to a Stereo's PHONO IN jack.
  - You need one audio and one video connection between the Player and your TV and/or Stereo. You will not use all the jacks on the Player.

**Once you determine the best option, find your choice on pages 10-14. Follow the steps for the hookup you choose.**

## 10 Hookups (cont'd)

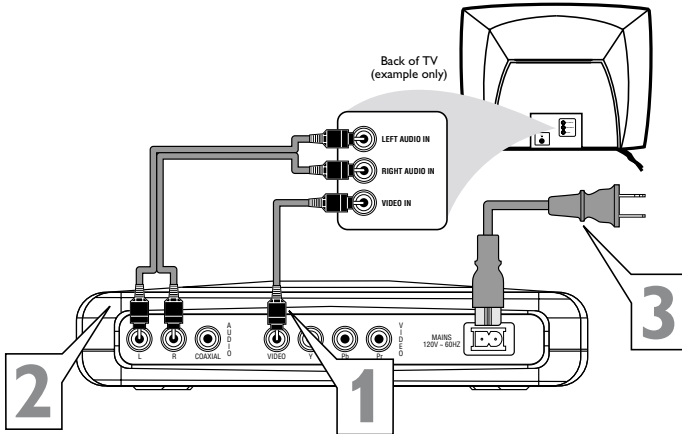
### Connecting to a TV Only TV has only a single Antenna In or RF In jack



**Make sure you have an RF modulator and RF coaxial cables (not supplied).**

- 1** Connect the supplied video cable (yellow) to the Player's yellow **VIDEO Out** jack and to the **VIDEO IN** jack on the RF modulator. The VIDEO IN jack on the RF modulator may be yellow and may be labelled VIDEO, CVBS, COMPOSITE, or BASEBAND.
- 2** Connect the supplied audio cable (white/red) to the Player's left/right **AUDIO Out** jacks and to the **AUDIO IN** jacks on the RF modulator. Audio jacks are white/red (left/right). Match cable colors to jack colors.
- 3** If you already have an Antenna/Cable TV signal connected to the **ANTENNA IN** jack on your TV, **disconnect it from the TV. Reconnect it to the ANTENNA IN jack on your RF modulator.**
- 4** Connect an RF coaxial cable (not supplied) to the **RF OUT, ANTENNA OUT, or TO TV jack** on the RF modulator. The RF OUT jack may be labelled differently. Check your RF modulator's manual. **Connect the other end of the same RF coaxial cable to the ANTENNA IN or RF IN jack on your TV.**
- 5** Your RF Modulator has a Channel 3/4 switch, which determines the TV channel on which you will watch materials playing on the DVD Player. **Set the Channel 3/4 switch to 3 or 4, whichever TV channel is least used in your area.** If your RF modulator has a Modulator/Antenna switch, set it accordingly. Check your RF modulator's manual.
- 6** Connect the supplied power cord to the **MAINS (AC Power) jack** on the rear of the DVD Player.
- 7** Connect the power cords of all the equipment to a power outlet.
- 8** Turn on your TV and choose channel 3 or 4. Choose the same channel to which you set the RF Modulator's Channel 3/4 switch.
- 9** Turn on the DVD Player by pressing **POWER**. You should see the Player's blue DVD screen on the TV (if no Disc is in the Player).

### Connecting to a TV Only TV has a yellow Video In jack



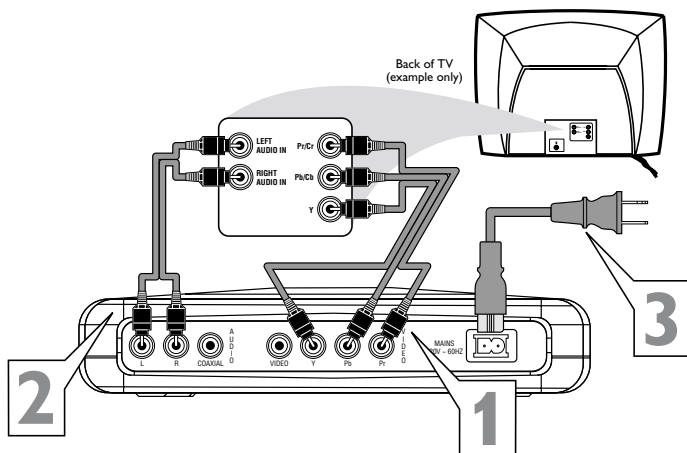
- 1** Connect the Player's yellow **VIDEO Out** jack to the **VIDEO IN** jack on your TV. Use the supplied video cable, which has yellow markings.
- 2** Connect the supplied audio cable to the Player's white/red **AUDIO Out** (left/right) jacks and to the left/right **AUDIO IN** jacks on the TV. The supplied audio cables have red and white markings. Match the cable colors to the jack colors.
- 3** Connect the supplied power cord to the **MAINS (AC Power)** jack on the rear of the DVD Player.
- 4** Plug the power cords of the Player and the TV into an active power outlet. Press **POWER** on the Player to turn it on.
- 5** Turn on the TV. Set it to the correct **Video In** channel. See your TV's manual for details. Or, go to your lowest TV channel (01 or 02) and change channels downward until you see the blue DVD screen on the TV.

#### Helpful Hints

- On the TV, the Video In jack is usually yellow and might be labeled video, CVBS, composite, or baseband.
- If your TV has a single Audio In jack instead of separate left/right Audio In jacks, you will need a different audio cable. You need a "splitter" audio cable to go from the left/right AUDIO Out jacks of the DVD Player to the single Audio In jack on your TV. See your electronics retailer for details.

## 12 Hookups (cont'd)

### Connecting to a TV Only TV has Component Video In Jacks (red, green, and blue)



**1** Connect the Player's **Y Pb Pr VIDEO Out** jacks to the **COMPONENT VIDEO IN** jacks on the TV. Use component video cables (not supplied). The Component Video jacks are red, green, and blue.

Your TV may have Component Video In jacks that are specifically labelled Progressive Scan. If you use these instead, set **PROGRESSIVE** to **ON** at the Player. (See step 6.)

**2** Connect the Player's **white/red left/right AUDIO Out** jacks to the TV's **left/right AUDIO IN** jacks. Use the supplied audio cables (white/red). Match cable colors to jack colors.

**3** Connect the supplied power cord to the **MAINS (AC Power)** jack on the rear of the DVD Player.

**4** Plug the power cords of the Player and the TV into an active power outlet. Press **POWER** on the Player to turn it on.

**5** Turn on the TV. Set it to the correct **Component Video In** channel. See your TV owner's manual for details. Or, go to your lowest TV channel (01 or 02) and change channels down until you see the DVD screen on the TV.

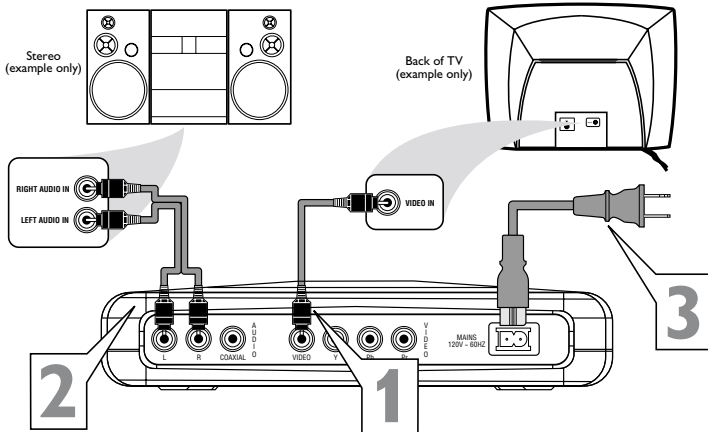
**6** If your TV has **Progressive Scan**, set **PROGRESSIVE** to **ON** at the DVD Player. See page 39. Select Progressive Scan at your TV also if necessary. See your TV manual for details.

#### Helpful Hint

- The TV's Component Video In jacks may be labeled YUV or Pr/Cr Pb/Cb Y and may be green, blue, and red.



### Connecting to a TV and a two-channel Stereo (Stereo has Dolby Pro Logic or left/right Audio In jacks)



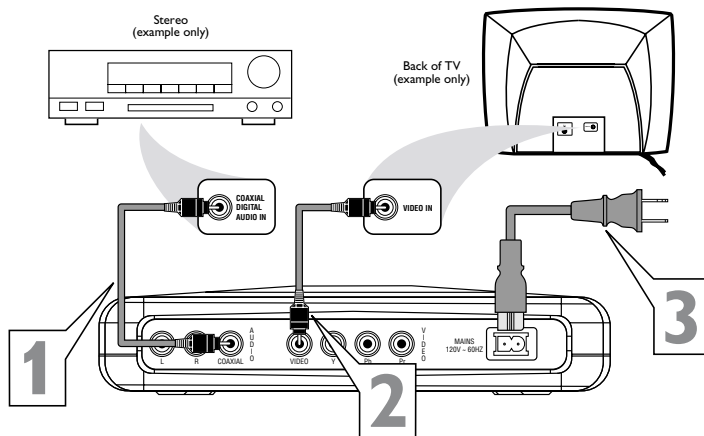
- 1** Connect the supplied video cable to the **Player's yellow VIDEO Out jack** and to the **TV's VIDEO IN jack**. The supplied video cable has yellow markings.
- 2** Connect the supplied audio cable to the **white/red left/right AUDIO Out (left/right) jacks on the Player** and to the **left/right AUDIO IN jacks on the Stereo**. The supplied audio cables have red and white markings. Match cable colors to jack colors.
- 3** Connect the supplied power cord to the **MAINS (AC Power) jack on the rear of the Player**.
- 4** Plug the power cords of the **Player, Stereo, and TV** into an active power outlet. Press **POWER** on the front of the **Player** to turn it on.
- 5** Turn on the **Stereo** and set it to the **correct Audio In channel or sound source**. Refer to your Stereo's manual for details.
- 6** Turn on the **TV**. Set it to the **correct Video In channel**. See your TV owner's manual for details. Or, go to your lowest TV channel (01 or 02) and change channels down until you see the blue DVD screen on the TV.

#### Helpful Hint

- To use the **Y Pb Pr** jacks for the video connection instead, see page 12.

## 14 Hookups (cont'd)

### Connecting to a TV and a Stereo (Stereo has Dolby Digital™ or MPEG2)

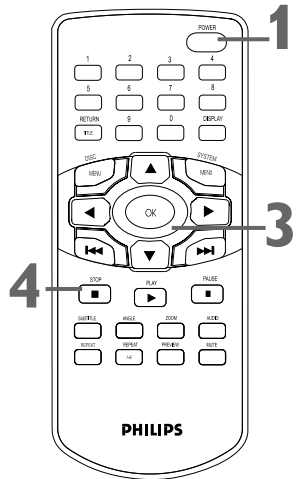
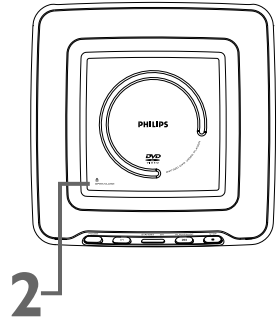


- 1** Connect the Player's **COAXIAL Out** jack to the Stereo's **COAXIAL DIGITAL AUDIO IN** jack. Use a coaxial digital audio cable (not supplied). See your electronics retailer for details and availability.
- 2** Connect the supplied video cable to the Player's yellow **VIDEO Out** jack and to the TV's **VIDEO IN** jack. The supplied video cable has yellow markings.
- 3** Connect the supplied power cord to the **MAINS (AC Power)** jack on the rear of the Player.
- 4** Plug the power cords of the Player, Stereo, and TV into an active power outlet. Press **POWER** to turn on the Player.
- 5** Turn on the Stereo and set it to the correct **Audio In** channel or sound source. Refer to the Stereo owner's manual for details.
- 6** Turn on the TV. Set it to the correct **Video In** channel. See your TV owner's manual for details. Or, go to your lowest TV channel (01 or 02) and change channels down until you see the blue DVD screen on the TV.

#### Helpful Hints

- Set **DIGITAL OUTPUT** correctly. See page 41.
- The Stereo must support **MPEG2** or **Dolby Digital™**. Check the Stereo's manual to be sure.
- To use the **Y Pb Pr** jacks for the video connection instead, see page 12.

- 1 Press POWER to turn on the DVD Player. Turn on your TV. Set it to the correct Video In channel.** You should see the blue DVD screen on the TV.
- 2 Press OPEN/CLOSE** to release the Disc compartment lid on top of the Player. **Place the Disc on the Disc hub**, with the Disc label facing up. If the Disc is two-sided, make sure the label of the side you want to play is facing up. **Press the lid down firmly to close it.** You will hear it click closed.
- 3 Play may start automatically. If not:**
  - If you are playing a DVD, a Disc menu may appear. Press **▲▼◀▶** to select an item, then press **OK**. Or, follow the instructions in the DVD Disc menu to start play. See page 19.
  - To play an Audio CD, press **PLAY**.
  - If a Video CD has Playback Control, press **DISC MENU** to access its menu while play is stopped. Or, press **RETURN/TITLE** to see the menu during play. Press the **Previous ◀◀**, **Next ▶▶**, **▲**, **▼**, **◀**, **▶**, or **Number** buttons to select an item, then press **OK**. Follow the instructions of the Video CD. Not all Video CDs have Playback Control. See the Disc for details.
- 4 To stop play at any time, press STOP.** If you press **STOP** once, play will resume at the same point when you play the Disc later. This Resume feature applies to the last five Discs. Press **PLAY** immediately after inserting the Disc in the Player (while **LOADING** shows on the TV). **RESUME PLAY** will appear on the TV briefly. If you press **STOP** twice to stop play, play will restart at the beginning of the Disc.



## Helpful Hints

- If a Disc is locked, enter your password or unlock the Disc. See pages 28-30.
- DVDs have a region code. This Player will play only DVDs of Region 1 or ALL. See page seven.
- If there is no activity at the Player or its remote for 15 minutes, the Player will go into low-power Standby mode. Press **POWER** on the Player or **PLAY** on the remote to turn it on again.

## 16 Remote Control

### Number Buttons

Press to select numbered menu items. Use to play a Chapter/Title/Track.

See page 19.

### RETURN/TITLE Button

Press to go to a previous Disc menu or to access a DVD's Title menu. These options are not available with all Discs.

### DISC MENU Button

Press during play to access a DVD's menu.

See page 19.

### ◀▶▶▶▶ Buttons

Press to select items in a menu. Use ◀▶ for searching. See page 21. Use ▲/▼ for slow motion DVD play. See page 21.

### Previous ◀◀◀ Button

Press to go to previous Chapters/Tracks.

See page 19.

### STOP Button

Press to stop Disc play.

### SUBTITLE Button

Press to select a DVD subtitle language.

See page 26.

### REPEAT Button

Press to play a Chapter, Title, Track, or Disc repeatedly. See page 24.

### ANGLE Button

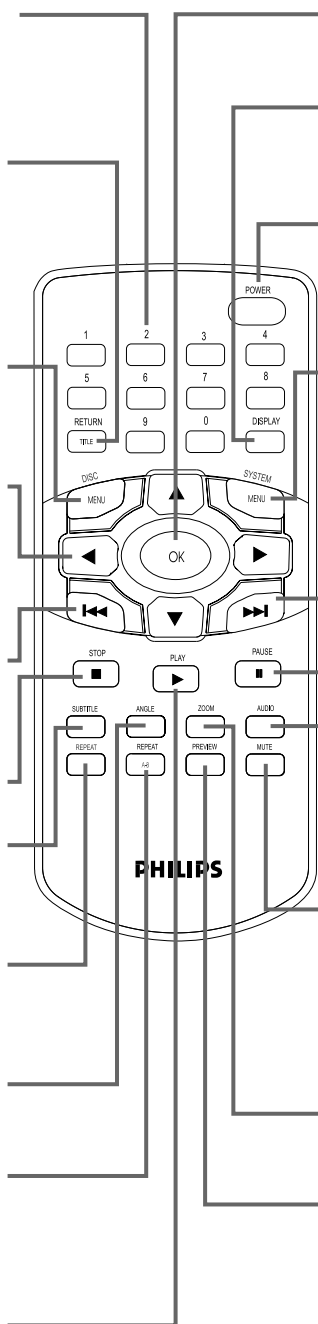
Press to select a DVD camera angle. See page 23.

### REPEAT A-B Button

Press to set up Repeat A-B play, in which a certain segment of the Disc plays repeatedly. See page 24.

### PLAY Button

Press to play a Disc.



### OK Button

Press to approve a menu selection.

### DISPLAY Button

Press during play to see disc information on the TV. See pages 19 and 22.

### POWER Button

Press to turn on the Player from Standby mode. Press to put the Player in Standby mode.

### SYSTEM MENU Button

Press to access or remove the Player's Setup Menu.

### Next ▶▶▶▶▶ Button

Press to skip to the next Chapter/Track. See page 19.

### PAUSE || Button

Press to pause play or to advance a picture one frame at a time. See page 22.

### AUDIO Button

Press to select a DVD audio language or to choose an audio channel. See page 25.

### MUTE Button

Press to silence or restore the volume. Aim the remote at the DVD Player, not the TV. MUTE or MUTE OFF will appear briefly on the TV screen.

### ZOOM Button

Press to reduce/enlarge the picture. See page 23.

### PREVIEW Button

Press to enter a Preview menu (Video CD). See page 32. Press to play the first 10 seconds of each Audio CD Track. See page 19.

### Disc Compartment

Insert a Disc here. Load the Disc with the label facing up and the shiny side facing down. If the Disc is two-sided, make sure the label of the side you want to play is facing up.

### OPEN/CLOSE

Press to release the Disc compartment lid.

### POWER Button

Press to turn the Player on or off.

### IR (Infrared) Remote sensor

This sensor receives commands from the Player's remote control. Point the remote here (not toward your TV).

### STANDBY and ON lights

The STANDBY light will appear when the Player is in power-saving Standby mode. You cannot use the Player, so it appears to be "off." When the Player is in Standby mode, you can turn on the Player using POWER or PLAY on the remote.

The On light will appear when the Player's power is On and the Player is ready for use. It also appears during Disc play. It flashes while the power is turning on.

The On light also blinks every time the Player receives a command from the remote (every time you press an active button).

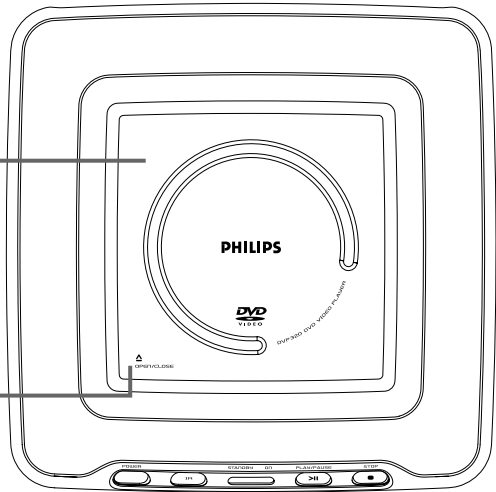
### PLAY/PAUSE button

Press to play a Disc. Press to pause play; press again to resume play.

### STOP button

Press once to stop Disc play. Play will resume from the same point the next time you start play. See *page 15*.

Or, press STOP twice to stop Disc play. Play will resume from the beginning of the Disc the next time you start play.



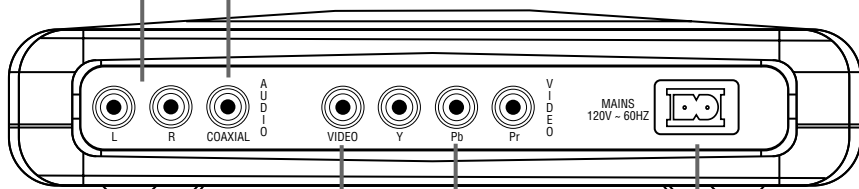
## 18 Rear Panel

### **AUDIO Out (left/right) (white/red) jacks**

Connect the supplied audio cables (white and red) here and to the AUDIO IN jacks on your TV, Stereo, or RF Modulator. See pages 10-13.

### **COAXIAL Out jack**

Connect a digital audio coaxial cable (not supplied) here and to the Digital Audio Coaxial In jack of a Stereo. See page 14.



### **VIDEO Out (yellow) jack**

Connect the supplied video cable (yellow) here and to the TV's Video In jack. See page 11.

Or, connect this jack to an RF modulator (not supplied) if your TV does not have a Video In jack. See page 10.

### **Y Pb Pr (green/blue/red) Out jacks**

Connect component video cables (not supplied) here and to the Component Video In jacks of a TV. The jacks are usually green, blue, and red. See page 12. If your TV has Progressive Scan, use these jacks and set PROGRESSIVE to ON for the best picture. See page 39.

### **MAINS (AC Power) jack**

Connect the supplied AC power cord here and to a standard AC power outlet after completing all other connections. Use only the supplied power cord.

### **Helpful Hints**

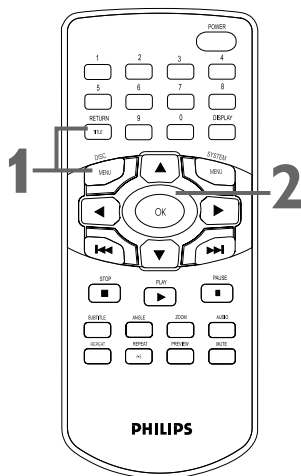
- You only need one audio and one video connection between a TV and the Player, so you will not use all the jacks on the Player.

## Title/Disc Menus, Chapter/Track Selection 19

### Title/Disc menus

- 1 Press DISC MENU during DVD play.** The main Disc menu (or Root menu) will appear. These menus vary among DVDs, depending on the features on the Disc.  
**Or, if the current Title has a specific Title menu, press RETURN/TITLE to access the Title menu.** Title menus are not available on all Discs.

- 2 Press ▲▼◀▶ to select items in the menu, then press OK.** Continue until you set up all the features you want or until play begins. If Chapters or options are numbered, press the appropriate Number button to select the item. Some DVDs may not allow you to operate the Disc menu this way. Follow the instructions on the Disc.

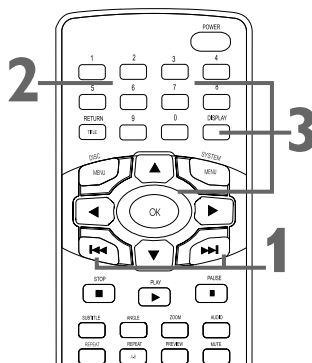


### Chapter/Track Selection

- 1 Press Next ▶▶ during play to go to the next Track/Chapter.**  
**Press Previous ◀◀ to go to the beginning of the current Track/Chapter or to go to previous Tracks/Chapters.**

- 2 To go directly to any Track/Chapter during play, press the Number buttons to enter the Track/Chapter number.** Precede single-digit numbers with a zero. For example, for Track six, press 0,6. Play will start at the beginning of the Track/Chapter you chose. If you enter an invalid number, the current Track/Chapter will continue to play. Make sure the Track/Chapter number you enter is available on the Disc. Make sure a Chapter is available within the current Title.

- 3 You can select a Title or Chapter in the display. Press DISPLAY, then press ▼ or ▲ to choose TITLE or CHAPTER. Press OK. Press the Number buttons to enter the Title or Chapter you want.** Precede single-digit numbers with a zero. Play will resume at the beginning of the item you selected. Press DISPLAY to remove the display.






#### Helpful Hints

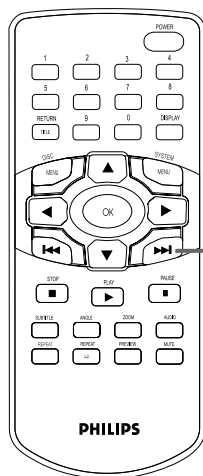
- Press **PREVIEW** to scan Audio CD Tracks. The first 10 seconds of each Track will play. Then, play will start at the first Track. To play a Track you find during scanning, press **PREVIEW** again.
- When DVD play is stopped, use the Number buttons to select a Title to play.

## 20 Smart Play, Virtual Remote

### Smart Play






Some DVDs start play with movie previews, advertisements, or other theatrical trailers. To skip these and play the main feature, use Smart Play.

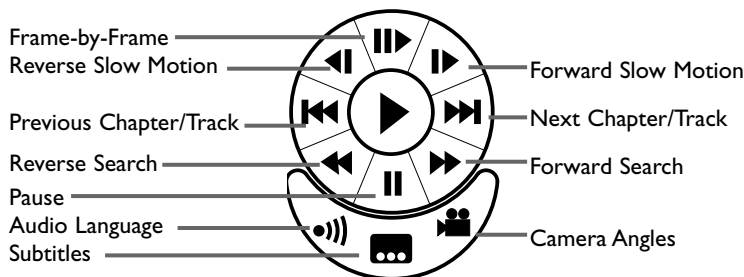
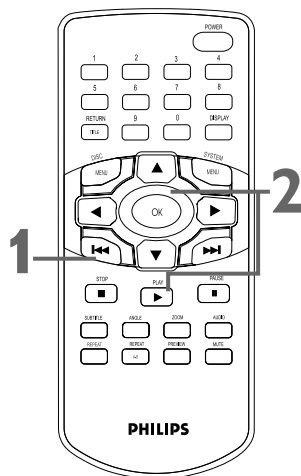
- 1 During Disc play, press and hold the Next  button for two seconds.** SMART PLAY will appear briefly in the top left corner of the TV screen. The main Title on the DVD will begin to play.  
If Smart Play is already active or if the main Title is already playing, the  symbol may appear on the TV when you press and hold Next  for two seconds.



### Virtual Remote

Use the hand-held remote control to work a Virtual Remote that you can see on the TV. This is just another way to control DVD or Video CD play.

- 1 During Disc play, press and hold Previous  on the hand-held remote until the Virtual Remote shows on the TV screen.** The Virtual Remote will disappear after 10 seconds if you do not use it.
- 2 Press     on the hand-held remote to select an option on the Virtual Remote, then press OK or PLAY to activate the option. Refer to the available options below.**





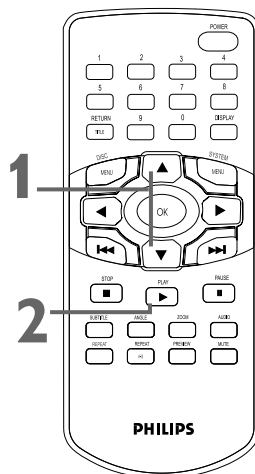
### Slow Motion

**1** During DVD or Video CD play, press **▼** to play the Disc forward at 1/2, 1/4, 1/8, or 1/16 the normal speed.

**Press ▲ to play a DVD backward at 1/2, 1/4, 1/8, or 1/16 the normal speed.** Slow reverse is not possible on Video CDs.

The sound will be mute during slow motion play.

**2** To return to normal play, press **PLAY**.



### Searching

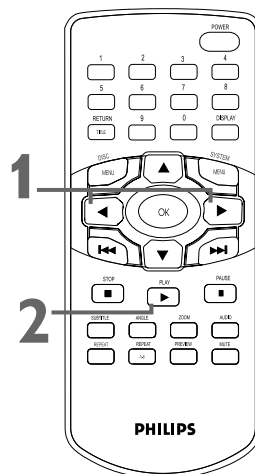
**1** To fast forward a DVD or Video CD, press **►** repeatedly to select two, four, eight, 16, or 32 times the normal speed. Sound will be mute.

**Or, press ◀ repeatedly to play the DVD or Video CD backward at two, four, eight, 16, or 32 times the normal speed.** The sound will be mute.

**To fast forward an Audio CD at two, four, eight, 16, or 32 times the normal speed, press ► repeatedly during play.** Sound will be intermittent.

**To fast reverse an Audio CD at two, four, eight, 16, or 32 times the normal speed, press ◀ repeatedly.** Sound will be intermittent.

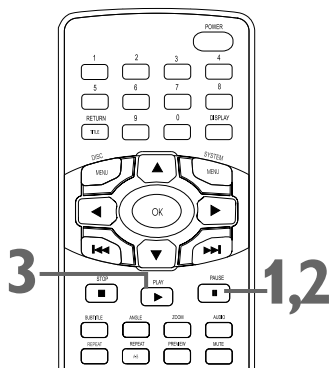
**2** To return to normal play, press **PLAY**.



## 22 Still Picture, Time Search

### Still Picture

- 1 Press **PAUSE II** on the remote to pause a DVD or Video CD picture.
- 2 Press **PAUSE II** repeatedly to advance the still picture one frame at a time.
- 3 Press **PLAY** to resume regular play.



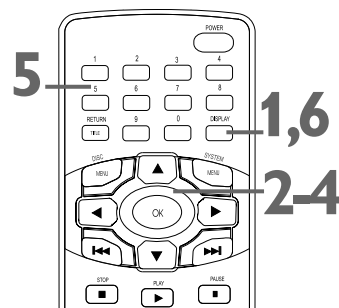
### Time Search

- 1 Press **DISPLAY** during DVD or Video CD play to see the Display information on the TV.
- 2 Press **▼** repeatedly to select **TIME DISP.** Press **OK**. Press **▲** or **▼** to highlight a Counter type, then press **OK**. See Helpful Hints at right. The Counter will appear at the bottom of the display.
- 3 Press **▲** or **▼** to select TT TIME, CH TIME, or DISC TIME, for example. This shows the total playing time of the Title, Chapter, or Disc (depending on the Disc in the Player).
- 4 Press **OK** to select the corresponding counter.



DVD  
example

- 5 Press the Number buttons to enter the elapsed playing time at which you want to resume play. (Press **◀** to quit and reselect TT TIME, CH TIME, etc.) Enter the time in hours, minutes, and seconds. Play will start at that point.
- 6 Press **DISPLAY** to remove the display.



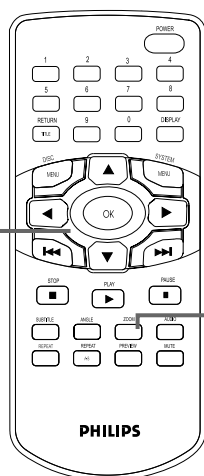
#### Helpful Hints

- Pausing a picture more than five minutes activates the screen saver. See page 47.
- These displays will be available, depending on the Disc.  
 CHAPTER ELAPSED - elapsed playing time of Chapter;  
 CHAPTER REMAIN - remaining playing time of Chapter;  
 TITLE ELAPSED - elapsed playing time of Title;  
 TITLE REMAIN - remaining playing time of Title;  
 TOTAL ELAPSED - elapsed playing time of Disc;  
 TOTAL REMAIN - remaining playing time of Disc.  
 SINGLE ELAPSED - elapsed playing time of Track;  
 SINGLE REMAIN - remaining playing time of Track.
- Press **DISPLAY** during Audio CD play to see the **SINGLE ELAPSED**, **SINGLE REMAIN**, **TOTAL ELAPSED**, or **TOTAL REMAIN** counter on the TV.

## Zoom/Reduce



You can reduce or enlarge the picture during play.

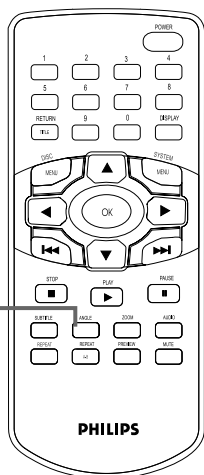
- 1** Press **ZOOM** repeatedly during Disc play to make the picture two, three, or four times larger. Or, keep pressing ZOOM to reduce the picture to 1/2, 1/3, or 1/4 its normal size.
- 2** Press **▲▼◀▶** to move around in the enlarged picture. The blue box that appears within the larger gray box on the TV screen shows the location of the zoomed area within the overall picture.
- 3** To return the picture to regular size, press **ZOOM** until the picture returns to its normal size.



## Camera Angle

Some DVDs include scenes recorded from different angles. To watch segments from a different angle, follow these steps. The DVD must have multiple angles available. Check the DVD Disc case or Disc menu for details and availability.

- 1** During DVD play, press **ANGLE** repeatedly to select a different angle. If multiple angles are available for the current scene, the  icon may appear in the top right corner of the TV screen during playback.
- 2** In a few seconds, the perspective changes to the selected angle. If multiple angles are not available,  may appear in the top left corner of the TV screen when you press ANGLE.



## 24 Repeat/Shuffle, Repeat A-B

### Repeat/Shuffle

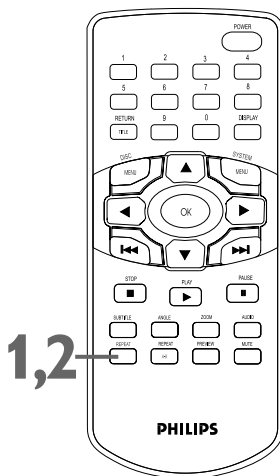
You may play a Chapter, Track, Title, or Disc repeatedly.

**1 During play, press REPEAT to choose a Repeat option.** Depending on the Disc, you may choose Chapter, Track, Title, or Disc (ALL).

**Or, continue to press REPEAT to choose SHUFFLE or SHUFFLE REPEAT.** The Tracks, Chapters, and/or Titles will play in random order instead of the order recorded (1,2,3, etc.). Choose SHUFFLE REPEAT to play Tracks/Chapters/Titles in random order repeatedly.

You cannot play a Video CD repeatedly while using Playback Control.

**2 To cancel repeat play, press REPEAT** until all the repeat modes disappear from the TV screen.



### Repeat A-B

To play a specific portion of a Disc repeatedly, follow these steps.

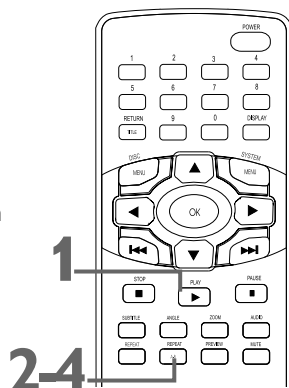
**1 Press PLAY to play the Disc.**

**2 When the Disc reaches the point at which you want repeated play to begin, press REPEAT A-B.**

**3 When the Disc reaches the point at which you want to end the segment, press REPEAT A-B again.** The segment will begin playing repeatedly.

Make sure the entire A-B segment is within a single Title or Track. If you do not enter the B setting before reaching the end of the Title/Track, Repeat A-B will be cancelled.

**4 To resume regular play, press REPEAT A-B** until all the repeat modes disappear from the TV screen.



### Helpful Hints

- You can't use the Number buttons to play a different Track or Chapter during Shuffled play.
- To set up Repeat Play for a DVD or Video CD in the Display, press DISPLAY. Press  $\blacktriangle$  or  $\blacktriangledown$  to highlight REPEAT. Press OK. Press  $\blacktriangle$  or  $\blacktriangledown$  to choose a Repeat mode; press OK. Press DISPLAY. This is not available with all Discs.

Some DVDs are recorded in multiple languages. Choose the language you want to hear by adjusting AUDIO.

The easiest way to choose a different language is to press AUDIO on the remote during DVD play.

**1** Press **STOP** twice to stop play.

**2** Press **SYSTEM MENU**.

**3** Press **▶** repeatedly to select the **PREFERENCE PAGE**. Press **OK**. You can select PREFERENCE PAGE only if you have stopped play by pressing STOP twice as directed in step 1.

**4** AUDIO will be selected. Press **▶**.



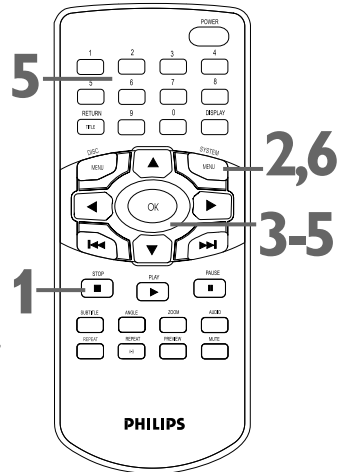
**5** Press **▲** or **▼** to choose a language, then press **OK**. You can only hear these languages if the language is recorded on the DVD.

**If there is another language on the DVD that does not show in this AUDIO menu, choose OTHERS, then press OK.**

At the next screen, press the **Number buttons** to enter the **four-digit language code** for the language you want. **See page 53 for codes.** Then, press **OK**. The PREFERENCE PAGE will reappear.



**6** Press **SYSTEM MENU** to remove the menus.



## Helpful Hints

- Some Audio CDs and Video CDs are recorded on multiple audio channels. For example, music may be on the left channel while vocals are on the right channel. Press AUDIO during play to choose which channels you want to hear (MONO LEFT, MONO RIGHT, MIX-MONO, or STEREO). Check your Disc case for details. If DIGITAL OUTPUT is set to ALL, you may not be able to select MONO LEFT or MONO RIGHT. See page 41.
- Some DVDs only allow you to change the audio in the DVD's Disc menu. See if the language is on the DVD.
- To change the Audio in the Display, press DISPLAY. Press **▲** or **▼** to highlight AUDIO, then press OK. Press **▲** or **▼** to choose a language, then press OK. Press DISPLAY to remove the display. This is not available with all Discs.

## 26 Subtitles

Some DVDs include subtitles. The easiest way to choose subtitles is to press SUBTITLE on the remote repeatedly during play.

- 1 Press **STOP** twice to stop DVD play.
- 2 Press **SYSTEM MENU**.
- 3 Press **►** repeatedly to select the **PREFERENCE PAGE**, then press **OK**. You can select PREFERENCE PAGE only if you have completely stopped DVD play by pressing STOP twice as directed in step 1.
- 4 Press **▼** to select **SUBTITLE**. Press **►**.



- 5 Press **▲** or **▼** to choose the language in which you want subtitles to appear. Press **OK**.

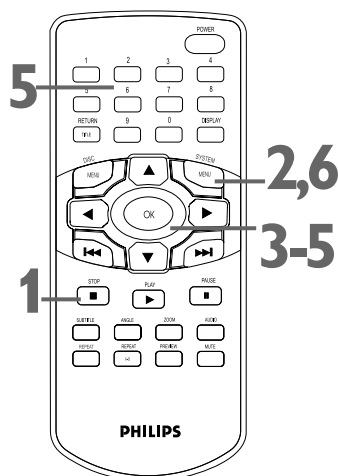
You can see subtitles in these languages only if available on the DVD. Check the DVD case for details on availability.

**If there is a subtitle on the DVD that does not show in the SUBTITLE menu, choose OTHERS and press OK.**

At the next screen, **press the Number buttons to enter the four-digit language code** for the language you want. **See page 53 for codes.** Then, **press OK**. The PREFERENCE PAGE menu will reappear.



- 6 Press **SYSTEM MENU** to remove the menus.



### Helpful Hints

- Some DVDs only allow you to choose Subtitle languages in the DVD Disc menu. Make sure the language you want is on the DVD.
- To change the Subtitles in the Display, press DISPLAY during play. Press **▲** or **▼** to highlight SUBTITLE, then press OK. Press **▲** or **▼** to choose a subtitle language, then press OK. Press DISPLAY to remove the display. This feature is not available with all DVDs.

DVDs have a Disc menu that lets you select features. Features vary among DVDs, so the menus are different for every DVD. Disc menus may be available in multiple languages. To choose a language, follow these steps.

- 1 Press STOP twice to stop play.**
- 2 Press SYSTEM MENU.**
- 3 Press ► repeatedly to select PREFERENCE PAGE. Press OK.** You can select PREFERENCE PAGE only after stopping play by pressing STOP twice as directed in step 1.
- 4 Press ▼ to select DISC MENU. Press ►.**



- 5 Press ▲ or ▼ to choose a language for the Disc menu. Press OK.**

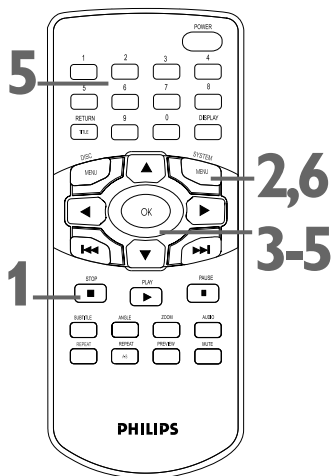
You can see Disc menus in these languages only if available on the DVD. Check the DVD case for details on available menu languages.

**If there is a menu language on the DVD that does not show in the DISC MENU list, choose OTHERS and press OK.**

At the next screen, **press the Number buttons to enter the four-digit language code for the language you want. See page 53 for codes. Then, press OK.** The PREFERENCE PAGE will reappear.



- 6 Press SYSTEM MENU to remove the menus.**



### Helpful Hints

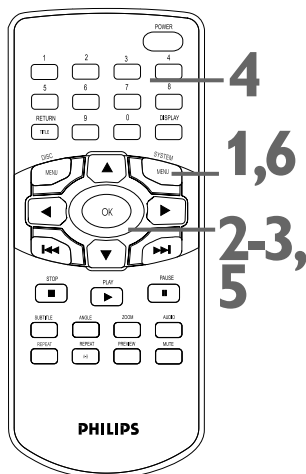
- Some DVDs only allow you to change the Disc menu language in the Disc menu. Make sure the language you want is on the DVD.

## 28 Parental Password

You need a password to change the PARENTAL settings or to play Locked Discs. To set your password, follow the steps below.

To adjust the PARENTAL level so DVDs cannot play if they exceed that level, see page 30.

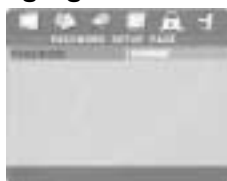
To prevent specific DVDs from playing, regardless of how you set PARENTAL, see page 29.



**1 Press SYSTEM MENU.**

**2 Press ► repeatedly to select the PASSWORD SETUP PAGE. Press OK.**

**3 PASSWORD will be highlighted. Press ► to highlight CHANGE, then press OK.**



**4 Press the Number buttons to enter your old six-digit password in the OLD PASSWORD box. (If this is the first time you have set a password, you do not have to enter an OLD PASSWORD. The numbers you enter will go into the NEW PASSWORD box instead.) Next, press the Number buttons to enter a new six-digit password of your choice in the NEW PASSWORD box. Next, press the Number buttons to enter the same new six-digit password in the CONFIRM PWD box.**



**5 Press OK to save the new password. The previous menu will appear.**

**6 Press SYSTEM MENU to remove the menus.**

### Helpful Hints

- The default password is 842100. Use it to play a Locked Disc or enter it as the old password. It is acceptable even after you set your own password.
- Philips denies any liability associated with unintended watching of Discs. Make sure your Discs play according to your PARENTAL settings before you allow children access to the Player.
- Your password must have exactly six digits. A series of Xs will appear instead of your actual password to protect the password's identity.



Not all DVDs are rated or coded by the Disc maker. You can specifically lock or unlock a DVD, regardless of its rating. If you lock a specific DVD, you must enter your password before you can watch the DVD. See page 28.

**1 Press SYSTEM MENU.**

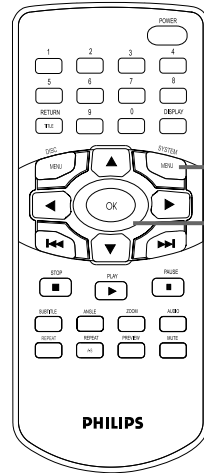
**2 The GENERAL SETUP PAGE will be selected. Press OK.**

**3 Press ▼ to select DISC LOCK. Press ►.**



**4 Press ▲ or ▼ to select UNLOCK or LOCK, then press OK.** Choose UNLOCK to view the current DVD without entering your password. If you choose LOCK, the current DVD cannot play unless you enter your password. PLEASE ENTER PASSWORD will appear on the TV screen to prompt you to enter your password. Press the Number buttons to enter your six-digit password, then press OK. Your password will not appear on the TV screen. This protects its identity. See page 28.

**5 Press SYSTEM MENU to remove the menus.**



## Helpful Hints

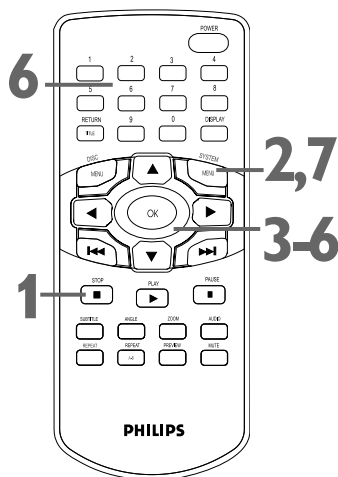
- Two-sided DVDs may have a different ID for each side. Lock or unlock each side. Multi-volume Disc sets may have a different ID for each volume or Disc. Lock or unlock each volume or Disc.
- Once you enter your password to play a Locked Disc, you can stop and resume play without reentering the password every time you resume play. If you open the disc compartment or put the Player in Standby mode (off), you must enter the password to play the Disc again.
- You cannot select DISC LOCK if there is no Disc in the Player.

## 30 Parental Levels

The Player can block or play a DVD based on its rating. Some DVDs let you enter your password to play a Disc. If not, remove the DVD, then change the PARENTAL setting so you can watch the Disc.

Not all DVDs conform to the levels you select, as not all DVDs are coded or protected by the manufacturer. Make sure the DVD plays according to your PARENTAL setting before you give children access to the Player or DVDs.

To prevent specific DVDs from playing, regardless of how you set the PARENTAL level, see page 29.



**1** Press **STOP** twice to stop DVD play.

**2** Press **SYSTEM MENU**.

**3** Press **▶** to select **PREFERENCE PAGE**, then press **OK**. You can select PREFERENCE PAGE only if you have stopped play by pressing STOP twice as directed in step 1.

**4** Press **▼** to select **PARENTAL**. Press **▶**.



**5** Press **▲** or **▼** to choose the level at which you want to restrict play, then press **OK**.

For example, if you do not want children to watch movies rated above PG, select 3 PG. DVDs rated PG can play without entering a password; DVDs rated higher cannot play unless you enter your password.

**6** A screen will prompt you to enter your password. Press the **Number** buttons to enter your six-digit password, then press **OK**.

**7** Press **SYSTEM MENU** to remove the menus.

### RATING EXPLANATIONS

- **ADULT** - Mature material, for adults only; graphic sex, violence, or language.
- **NC-17** - No children under age 17.
- **R** - Restricted; recommended that parents restrict children under age 17 from viewing or allow children to view only when supervised by a parent or adult guardian.
- **PGR** - Parental Guidance Required.
- **PG 13** - Material is unsuitable for children under age 13.
- **PG** - Parental Guidance suggested.
- **G** - General Audience; recommended as acceptable for viewers of all ages.
- **KID SAFE (SAF)** - Safe for children to view.

### Helpful Hints

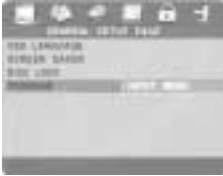
- **PARENTAL** does not affect Video CDs, Super Video CDs, or Audio CDs. **PARENTAL** only affects DVD play.
- Your password must have exactly six digits. A series of Xs will appear on the TV instead of your password to protect its identity.

To play Tracks or Chapters in an order you specify, set up a Program by following these steps.

## 1 Press SYSTEM MENU.

The GENERAL SETUP PAGE will be selected. Press **OK**.

## 3 Press **▼** to select PROGRAM.



Press **▶** to select **INPUT MENU**, then press **OK**. The PROGRAM menu will appear. This is where you enter the Track/Chapter numbers in the order you want.

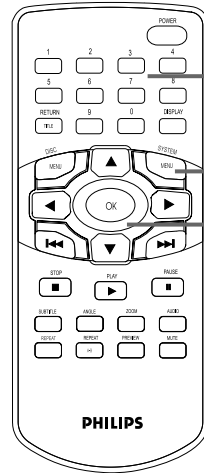
**While the Number 1 space is highlighted, press the Number buttons to enter the Title and/or Chapter/Track number you want to play first.** The number of available Titles, Chapters, or Tracks will appear at the top of the screen.



Audio CD example

Use **▲▼◀▶** to move to other Program positions. Use the Number buttons to enter other Titles/Chapters/Tracks. Repeat this process to fill the Program. If you enter an incorrect number, press **▲▼◀▶** to select the Program position. Use the Number buttons to reenter the correct number. To delete an item from the Program, use **▲▼◀▶** to select it. Press **OK** or **PLAY** to erase the item.

When you have entered all the items you want, press **▼, ◀, and/or ▶** to select **START** at the bottom of the screen. Then, press **OK**. This will store the Tracks in the Program. The Program will start playing. To resume normal play, press **STOP** twice to stop playing the Program. Press **PLAY** to start play at the beginning of the Disc.



4-5

1

2-6

### Helpful Hints

- To access other Program pages, press Previous **◀◀** or Next **▶▶**.
- To stop entering Tracks in the Program, press **▼** and **◀** or **▶** to select **EXIT** at the bottom of the screen, then press **OK**. When you play the Disc, Tracks will play in normal order (1, 2, 3, etc.).
- The Program will accept a Title/Chapter/Track number only if it is on the current Disc.
- You cannot select **PROGRAM** if there is no Disc in the Player.

## 32 Preview

Some Video CDs contain preview or introductory information. Use Preview to see the content of a Video CD. Not all Video CDs contain this information. See your Disc case for details.

### 1 Press **PREVIEW** to see the Preview menu.

SELECT DIGEST TYPE:  
**TRACK DIGEST**  
 DISC INTERVAL  
 TRACK INTERVAL

### 2 Press **▲** or **▼** to select **TRACK DIGEST**, **DISC INTERVAL**, or **TRACK INTERVAL**. Press **OK**.

- If you select **TRACK DIGEST**, the first five seconds of each Track will play. To play a Track, press **▲** to go to the **SELECT** line. Press the Number buttons to enter a Track number. Press **OK**.

To see other Tracks, press Previous **◀◀** or Next **▶▶**.

TYPE: TRACK  
 SELECT (01-09) : **--**  
 EXIT MENU

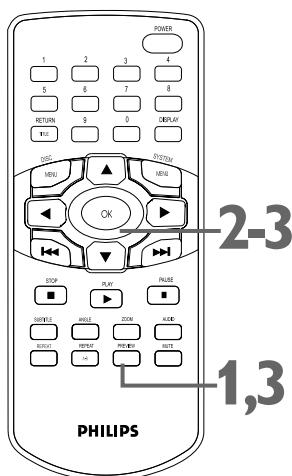
- If you select **DISC INTERVAL**, the Disc contents will divide into six segments. To play the Disc from a certain interval, press **▲** to go to the **SELECT** line. Press the Number buttons to choose a segment (1-6), then press **OK**.

TYPE: DISC INTERVAL  
 SELECT (01-06) : **--**  
 EXIT MENU

- If you select **TRACK INTERVAL**, the current Track will divide into six parts. To play the Track from a certain interval, press **▲** to go to the **SELECT** line. Press the Number buttons (1-6) to choose a segment, then press **OK**.

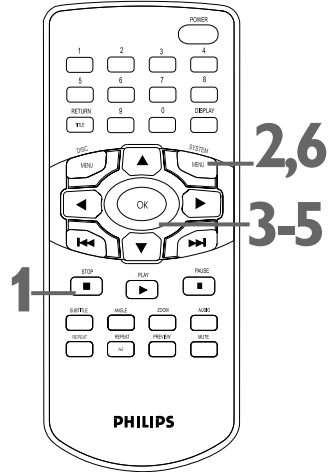
TYPE: TRACK 01 INTERVAL  
 SELECT (01-06) : **--**  
 EXIT MENU

### 3 To remove the **PREVIEW** menus, press **PREVIEW** again. Or, press **▼** and/or **◀** to choose **EXIT**, then press **OK**. To go to the first **PREVIEW** screen, press **▼** and/or **▶** to select **MENU**. Press **OK**.



This DVD Player can play some Compact Disc-Recordable (CD-R) discs that you record on your computer. These CD-Rs may contain pictures in a JPEG format or audio files/tracks in an MP3 format. For example, you may have photographic film developed by a retailer that places the pictures on a CD-R for you. These pictures may be in JPEG format. Or, you may copy or download MP3 music files from certain legal Internet sites, then copy those files onto a CD-R. (You cannot make or record such CD-Rs using this DVD Player. See your computer manual for details on making CD-R recordings.)

If you are playing a CD-R on this Player and the CD-R contains JPEG or MP3 files, you may want to access the CD-R menu using Navigator.



- 1 Press STOP twice to stop play completely.**
- 2 Press SYSTEM MENU.**
- 3 Press ► repeatedly to select the PREFERENCE PAGE, then press OK.**
- 4 Press ▼ to select MP3/JPEG NAV (Navigator), then press ►.**
- 5 Press ▲ or ▼ to select WITHOUT MENU or WITH MENU, then press OK.** If you select WITHOUT MENU, MP3 files will play in the order in which they are recorded on the Disc (1, 2, 3, etc.). Select WITH MENU to see a Disc's contents in a menu.



- 6 Press SYSTEM MENU to remove the menus.**

## Helpful Hint

- Some Discs may not start to play automatically if MP3/JPEG NAV is set to WITHOUT MENU.

## 34 JPEG and MP3 Features

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### General Information on CD-R and CD-RWs

When you make CDs, the Disc should have at least 6-10 pictures or 2-3 MP3 music files. Make sure there are at least 3 MB (three megabytes) of information on the Disc. The maximum files per folder is 500.

JPEG file names should end with the ".jpg" extension.

**To play a JPEG or MP3 file, press the Number buttons to select an item, then press OK. Or, press ▲ or ▼ to select an item, then press OK.**

### JPEG features

- When play is stopped, small copies of the JPEGs will appear (up to 12). Press ▼ and ◀ or ▶ to choose Previous ◀◀ or Next ▶▶ at the bottom of the screen, then press OK. This shows you the other pictures on the Disc.  
Or, press ▲, ▼, ◀, or ▶ to choose a picture, then press OK to start play at the selected image.  
Press ▼ and ◀ to select the small filmstrip icon at the bottom of the screen, then press OK. This will play all the files, beginning with the first picture on the page.
- Press ZOOM repeatedly to reduce or enlarge a JPEG. Press ▲, ▼, ◀, or ▶ to move through the image. Not all playback features are available during zoomed play.
- During JPEG play, press ▲, ▼, ◀, or ▶ to flip or rotate the image.
- Press ANGLE repeatedly during JPEG play to choose how the pictures will transfer in/out during play. The default setting is RANDOM.
- Not all features (Pause, System Menu access, etc.) are available during JPEG play.

### Repeat/Shuffle

- With MP3 Tracks, press REPEAT continuously to choose:  
FOLDER - Plays all files in the Folder once.  
REPEAT ONE - Plays an MP3 file repeatedly.  
REPEAT FOLDER - Plays all files in the Folder repeatedly.  
SHUFFLE - Plays all files in the Folder in random order.
- With JPEGs, press REPEAT continuously to choose:  
REPEAT ONE - Plays the current image repeatedly.  
REPEAT ALL - Plays all JPEG files repeatedly.  
SHUFFLE - Plays JPEG files in random order.  
REPEAT OFF - Cancels all repeat and shuffle features.

### Program

- 1 With play stopped, press DISC MENU so the PROGRAM screen appears. Available files show on the left. The Program list shows on the right.
- 2 Press ▲ or ▼ to choose a file to add to the Program, then press OK or PLAY. (To remove an item from the Program, press ▶ to go to the PROGRAM list on the right; press ▲ or ▼ to select it, then press STOP.)
- 3 Press ▶ to select an item in the Program. Press OK to play the Program from that point.

### Playing MP3 and JPEG files simultaneously

- 1 Play an MP3 file as described above.
- 2 Press RETURN/TITLE.
- 3 Select a JPEG to play as described above.
- 4 Press DISC MENU to stop JPEG play. Then press STOP to stop MP3 play.

You may set the Player to display video in one of three formats: Letter Box, Pan & Scan, or Widescreen (16:9). To choose a format, follow these steps. The format you select must be on the Disc. If it is not, the settings for TV DISPLAY will not affect the picture during playback.

**1 Press SYSTEM MENU.**

**2 Press ► repeatedly to select the VIDEO SETUP PAGE, then press OK.**

**3 Press ▼ to select TV DISPLAY. Press ►.**

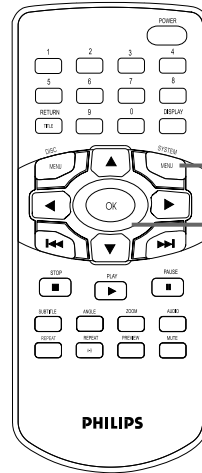
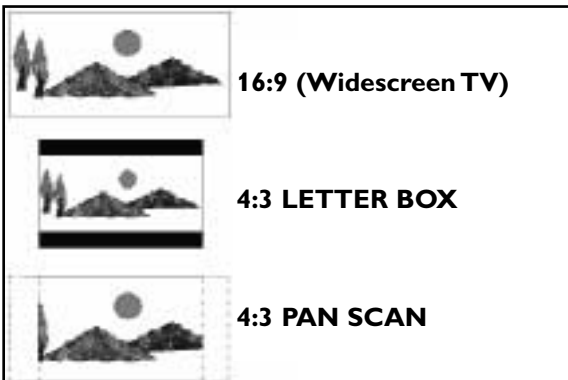
**4 Press ▲ or ▼ to select 4:3 PAN SCAN, 4:3 LETTER BOX, or 16:9 (widescreen), then press OK.**

Select 4:3 PAN SCAN if you want the picture to be trimmed or formatted to fit your TV screen. Select 4:3 LETTER BOX if you want to see the entire, widened picture with black bars at the top and bottom of the screen. This looks like the picture you see when watching movies in a theater.

Select 16:9 (widescreen) if you connected the DVD Player to a widescreen TV.



**5 Press SYSTEM MENU to remove the menus.**



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2-4

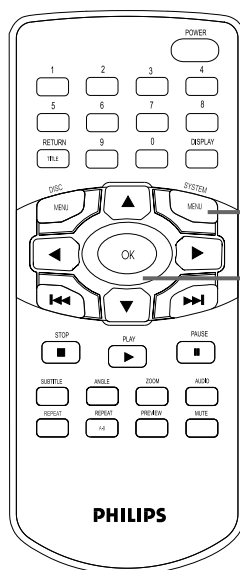
## Helpful Hints

- DVDs only play in the format in which they were recorded. For example, if the DVD case says the DVD is recorded in Letterbox or Widescreen format, you may play the DVD only with the black bars showing at the top and bottom of the widened picture. Even if you set TV DISPLAY to 4:3 PAN SCAN, the picture will show in the widened format.
- Some widescreen TVs may show only part of the DVD Player's menu. Adjust the screen mode on your TV. See your TV manual for details.

## 36 Smart Picture, Picture Setting

Just as you can adjust your picture on your TV, you can adjust some picture elements at the DVD Player. Choose a Smart Picture setting that best displays the Disc you are playing.

- 1 Press **SYSTEM MENU**.
- 2 Press **►** to select the **VIDEO SETUP PAGE**. Press **OK**.
- 3 Press **▼** to select **SMART PICTURE**. Press **►**.
- 4 Press **▲** or **▼** to select **STANDARD**, **BRIGHT**, **SOFT**, or **PERSONAL**, then press **OK**.



- 5 If you selected **BRIGHT**, **STANDARD**, or **SOFT**, you are finished. Press **SYSTEM MENU** to remove the menus. You may want to play a Disc for a few minutes in each setting to decide which you prefer.

If you selected **PERSONAL**, you can adjust specific picture elements for your preference. Go to step 6 to adjust these items.

- 6 **SMART PICTURE** will be reselected in green. Press **▼** to select **PICTURE SETTING**, then press **►**.
- 7 Press **▲** or **▼** to select **BRIGHTNESS**, **CONTRAST**, **TINT**, or **COLOR**, then press **OK**.





## 38 TV Type

DVDs are recorded in a color system, usually NTSC or PAL. NTSC is the most common in the United States.

Your TV also has a color system, and this Player is compatible with NTSC and PAL. However, the color system of the DVD, the TV, and the Player should match. If all three are not the same, the DVD may play in only black and white, the picture may roll continuously, or the picture may appear distorted. Adjust TV TYPE to set the Player to match the color systems of your DVDs and your TV.

**1 Press SYSTEM MENU.**

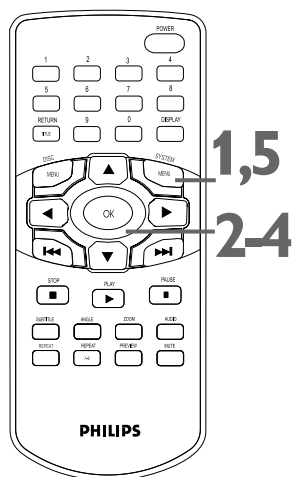
**2 Press ► to select the VIDEO SETUP PAGE, then press OK.**

**3 TV TYPE will be selected. Press ►.**



**4 Press ▲ or ▼ to select MULTI, NTSC, or PAL, then press OK.** Choose NTSC if your TV is NTSC-compatible and your DVDs are recorded in NTSC. Choose PAL if your TV is PAL-compatible and your DVDs are recorded in PAL. Choose MULTI if your TV is compatible with both NTSC and PAL and you want the DVD Player to automatically select the color system of the current DVD.

**5 Press SYSTEM MENU to remove the menus.**



### Helpful Hint

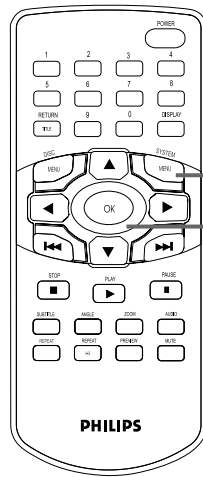
- Your DVD must be recorded in NTSC or PAL. Discs recorded in other color systems will not play on this Player. Check the Disc case for details. NTSC or PAL may appear on the inside ring of the DVD.

If you connected the Player to a TV using the Y Pb Pr jacks and your TV has Progressive Scan, set PROGRESSIVE to ON. This provides the best picture.

- 1** Press **SYSTEM MENU**.
- 2** Press **►** to select the **VIDEO SETUP PAGE**, then press **OK**.
- 3** Press **▲** or **▼** to select **PROGRESSIVE**, then press **►**.
- 4** Press **▲** or **▼** to choose **ON** or **OFF**, then press **OK**. Choose **ON** if your TV has Progressive Scan.



- 5** A message will ask you to verify your hookups and the availability of Progressive Scan. Press **►** or **◀** to choose **OK**, then press **OK**. If Progressive Scan is not detected, the VIDEO SETUP PAGE will reappear. Repeat steps 3-4 to set PROGRESSIVE to OFF. If you realize you do not have Progressive Scan, choose **CANCEL** and press **OK**. Repeat steps 3-4 to set PROGRESSIVE to OFF.
- 6** Press **SYSTEM MENU** to remove the menus.

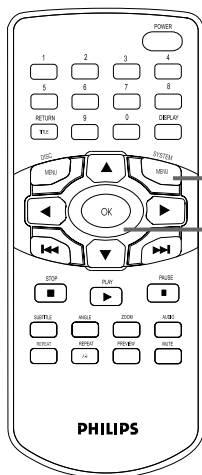


## 40 Analog Output

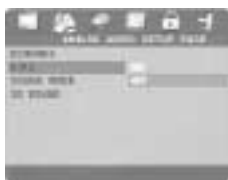
Use ANALOG AUDIO SETUP to adjust some of the Player's audio settings.

Adjust DOWNMIX according to how you connected the Player to your TV and/or Stereo. Balance the volume during playback by adjusting Dynamic Range Control (D.R.C.).

- 1 Press SYSTEM MENU.**
- 2 Press ► to select the AUDIO SETUP PAGE, then press OK.**
- 3 ANALOG AUDIO SETUP will be selected. Press OK.**
- 4 Press ▲ or ▼ to select DOWNMIX or D.R.C., then press ► and follow step 5 according to your choice.**
- 5 • If you selected DOWNMIX, press ▲ or ▼ to select LT/RT (left/right) or STEREO, then press OK. Choose LT/RT if you connected the Player to a stereo that has Dolby Pro Logic. See page 13. Select STEREO if you connected the Player to a TV or Stereo that has left and right Audio In jacks but does not have Dolby Pro Logic.**



- If you selected D.R.C., press ▲ or ▼ to select ON or OFF, then press OK. To level the volume during Disc playback, choose ON. There will not be such a large range between the loudest and softest parts of the sound. To hear the highs and lows of the volume, set D.R.C. to OFF.**



- 6 Press SYSTEM MENU to remove the menus.**

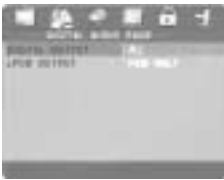
If you connected the Player to a Stereo using the COAXIAL jack as shown on page 14, adjust DIGITAL OUTPUT (audio) as described below. If you are not using the COAXIAL jack, no adjustment is necessary.

- 1** Press **SYSTEM MENU**.
- 2** Press **►** to select the **AUDIO SETUP PAGE**, then press **OK**.
- 3** Press **▼** to select **DIGITAL AUDIO SETUP**, then press **OK**.
- 4** **DIGITAL OUTPUT** will be selected. Press **►**.
- 5** Press **▲** or **▼** to select **ALL** or **PCM ONLY**, then press **OK**.

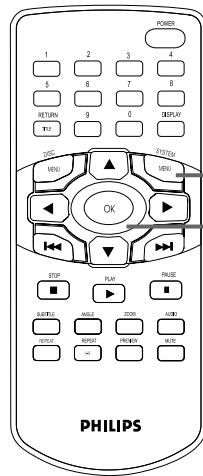
Choose **ALL** to select the original default audio settings as received by most Stereos.

If the sound is distorted, your Stereo may need to receive audio in the **PCM** format (pulse code modulation, contains only left and right audio signals).

Choose **PCM ONLY** if your Stereo is **PCM-compatible** or cannot decode **MPEG-2** or **DTS** audio. Refer to your Stereo manual for details.



- 6** Press **SYSTEM MENU** to remove the menus.



## 42 LPCM Output

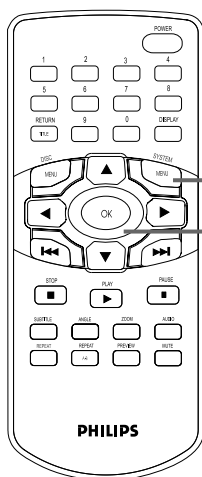
If you connected the Player to a Stereo using the COAXIAL jack as shown on page 14, adjust LPCM OUTPUT.

Discs are recorded in a certain sampling rate. The higher the sampling rate, the better the sound quality. Some Discs are recorded in a high sampling rate of 96 kHz. Set LPCM OUTPUT to 96K if you are playing Discs recorded at this high rate. Otherwise, set LPCM OUTPUT to 48K.

- 1** Press **SYSTEM MENU**.
- 2** Press **▶** to select the **AUDIO SETUP PAGE**, then press **OK**.
- 3** Press **▼** to select **DIGITAL AUDIO SETUP**, then press **OK**.
- 4** Press **▼** to select **LPCM OUTPUT**, then press **▶**.
- 5** Press **▲** or **▼** to select **48K** or **96K**, then press **OK**.



- 6** Press **SYSTEM MENU** to remove the menus.



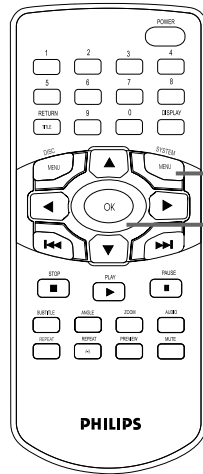
1,6  
2-5

Select the sound mode that matches the type of music you play most often. These preset sound modes adjust the frequency bands of the audio to enhance your favorite music style.

- 1 Press **SYSTEM MENU**.
- 2 Press **▶** to select the **AUDIO SETUP PAGE**, then press **OK**.
- 3 **ANALOG AUDIO SETUP** will be selected. Press **OK**.
- 4 Press **▼** to select **SOUND MODE**, then press **▶**.



- 5 Press **▲** or **▼** to select **NONE**, **ROCK**, **POP**, **LIVE**, **DANCE**, **TECHNO**, **CLASSIC**, or **SOFT**, then press **OK**. Choose **NONE** to play the Disc with its original sound effects.
- 6 Press **SYSTEM MENU** to remove the menus.



## 44 3D Sound

During music playback, this feature simulates echoes and frequencies that may be available in a particular environment. Choose the environment that you would like to recreate by changing the 3D SOUND setting.

**1** Press **SYSTEM MENU**.

**2** Press **►** to select the **AUDIO SETUP PAGE**, then press **OK**.

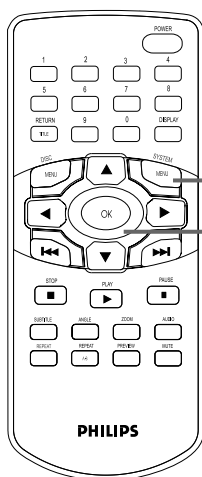
**3** ANALOG AUDIO SETUP will be selected. Press **OK**.

**4** Press **▼** to select **3D SOUND**. Press **►**.



**5** Press **▲** or **▼** to select **OFF**, **CONCERT**, **LIVING ROOM**, **HALL**, **ARENA**, or **CHURCH**, then press **OK**. Choose **OFF** to play the Disc with its original sound effects.

**6** Press **SYSTEM MENU** to remove the menus.





## Display Language 45

You can set the DVD Player's Setup menus and on-screen messages to appear in English, Spanish, or French. These are the only three languages available. This language selection will not affect the languages of DVD Disc or Title menus or any audio, subtitle, or Closed Caption languages. To change the DVD Player's menu language, follow these steps.

### 1 Press **SYSTEM MENU**.

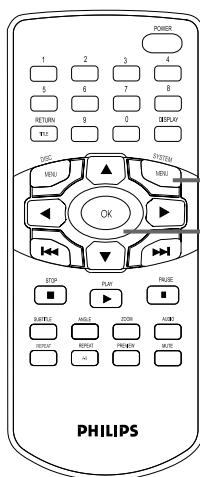
### 2 The **GENERAL SETUP PAGE** will be selected. Press **OK**.

### 3 **OSD LANGUAGE** (on-screen display) will be selected. Press **►**.



### 4 Press **▲** or **▼** to select **ENGLISH**, **ESPAÑOL** (Spanish), or **FRANCAIS** (French), then press **OK**.

### 5 Press **SYSTEM MENU** to remove the menus.



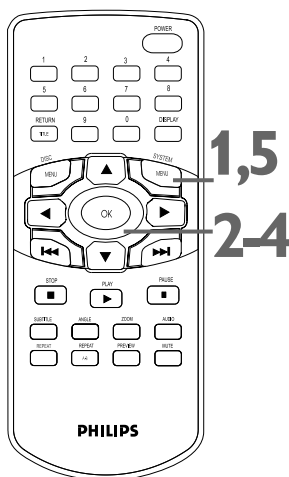
### Helpful Hint

- If you have Spanish or French menus and need English:
  - 1) Press **SYSTEM MENU**.
  - 2) With **PAG. CONFIG. GENERAL** or **PAGE REGLAGES GENER-AUX** selected, press **OK**.
  - 3) With **IDIOMA MENUS** or **LANGUE OSD** selected, press **►**.
  - 4) Press **▲** to select **ENGLISH**, then press **OK**.
  - 5) Press **SYSTEM MENU**.

## 46 Closed Captions

Closed captions are hidden in the video signal of some Discs. Different than subtitles, closed captions are intended for the hearing impaired and also show sound effects. For example, closed captions may include information such as “phone ringing” or “foot-steps approaching,” while a subtitle would only show spoken text.

Though you can turn on Closed Captions in the DVD Player's menu, the captions must be available on the Disc. Also make sure you turn on Closed Captioning on your TV. Otherwise, the captions will not appear.



- 1** Press **SYSTEM MENU**.
- 2** Press **►** repeatedly to select the **VIDEO SETUP PAGE**, then press **OK**.
- 3** Press **▼** repeatedly to select **CLOSED CAPTIONS**. Press **►**.



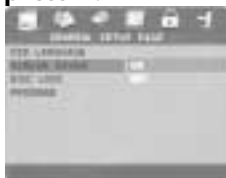
- 4 Press ▲ or ▼ to select **ON** or **OFF**, then press **OK**.
- 5 Press **SYSTEM MENU** to remove the menus.

The Screen Saver is the moving DVD logo that appears on your TV screen when Disc play is stopped. It prevents damage to your TV screen caused by leaving a still image on the TV too long.

**1 Press SYSTEM MENU.**

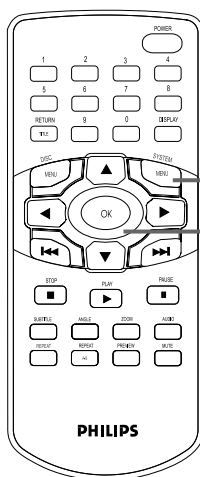
**2** The GENERAL SETUP PAGE will be selected.  
**Press OK.**

**3 Press ▼ to select SCREEN SAVER, then press ►.**



**4 Press ▲ or ▼ to select ON or OFF, then press OK.** Choose ON to have the Screen Saver appear on your TV screen when you have not used the Player or its remote for approximately five minutes and play is stopped or paused. To disable the screen saver, choose OFF. The dark blue DVD screen will appear when play is stopped.

**5 Press SYSTEM MENU** to remove the menus.



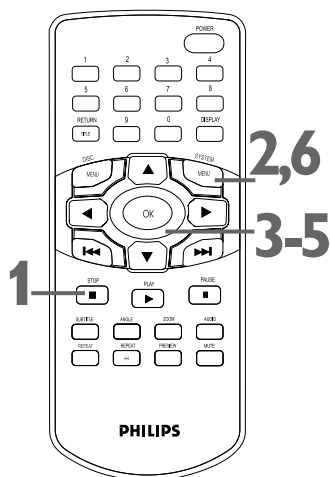
## 48 Defaults

To restore the original settings of the DVD Player, follow the steps below.

- 1** Press **STOP** twice to stop Disc play completely.
- 2** Press **SYSTEM MENU**.
- 3** Press **►** repeatedly to select the **PREFERENCE PAGE**, then press **OK**.
- 4** Press **▼** repeatedly to select **DEFAULT**.
- 5** Press **►** to select **RESET**, then press **OK**.  
The original settings of the DVD Player will be restored.



- 6** Press **SYSTEM MENU** to remove the menus.



**Analog:** Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. Analog sound is available when you use the red and white audio jacks on your equipment. These jacks send audio through two channels, the left and right.

**AUDIO Out Jacks:** Left and right jacks on the rear of the Player that send audio to another system (TV, Stereo, etc.). The jacks are white and red.

**Chapter:** A part of a Title.

**COAXIAL Out jack:** Sends digital audio to a Stereo, allowing you to adjust the volume at the Stereo. The Stereo must have a Coaxial In jack. This connection provides the 5.1 channel surround sound as heard in movie theaters. The COAXIAL Out jack on the DVD Player is black.

**Color system:** There are various systems for transmitting television signals, for example PAL, SECAM, and NTSC. NTSC is the most common color system in the United States of America.

**Digital:** Sound that has been converted into numerical values. Digital sound is available when you use the Player's COAXIAL Out jack, which sends audio through multiple channels instead of two channels as analog does.

**Dolby Digital:** A surround sound system that provides 5.1 channel sound as used in movie theaters.

**DVD:** Digital Video Disc.

**Letter Box:** Widescreen format; a TV aspect ratio setting (4:3). Displays the video in full-width, with black bars at the top and bottom of the TV screen. This format is similar to seeing a movie in a theater. If the Disc does not include a letter box format, selecting letter box may have no effect. Some DVDs are two-sided, with one side playing in widescreen format and the other side playing in a normal (pan & scan) format.

**Pan & Scan:** A TV aspect ratio setting (4:3). Displays the video with full-height picture with one or both sides of the picture trimmed to fit on your TV screen. Some movie companies refer to this as "reformatting the picture to fit your TV screen."

**PBC:** Playback Control. A special feature on some Video CDs/Super Video CDs that enables interactive use.

**PCM:** Pulse Code Modulation. A digital audio encoding system.

**RGB:** Red-Green-Blue. A top-quality video connection where red, green, and blue components of the picture are carried through separate wires. This also is referred to as the component video connection.

**Title:** A unit of recording on a DVD.

**VCD:** Video Compact Disc.

**VIDEO Out Jack:** Yellow jack on the rear of the DVD Player that sends video (picture) to a TV.

**Widescreen:** A TV aspect ratio setting (16:9). Displays the video appropriately when you connect the DVD Player to a widescreen TV.

**Y Pb Pr Jacks:** The Component Video Out jacks on the rear of the Player that send high-quality video to a TV that has Component Video In jacks. The jacks on the DVD Player are red, blue, and green.

## 50 *Helpful Hints*

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### **No power**

- Press down POWER on the Player. The POWER button on the remote will turn on the Player only when the Player is in Standby mode. The Standby light will be on.
- Connect the supplied power cord securely to the MAINS (AC Power) jack on the rear of the Player. Connect the power cord to an AC power outlet.
- Make sure the AC outlet has power. Test another appliance in the same outlet.

### **No picture**

- Make sure the TV power is on.
- Check the video cables. Make sure the cable(s) are fastened securely to the Player and to the TV.
- Set your TV to the correct Video In channel. These channels are usually near channel zero (0). Or, you may have a button on the TV remote that selects an Auxiliary, A/V IN, or Video channel. See your TV manual for details. Or, go to your lowest TV channel (01 or 02), then change channels down until you see DVD playback or the blue DVD screen on the TV.  
If you are using an RF modulator, set the TV to channel 3 or 4. See *page 10*.
- You only need one video connection between the Player and a TV. See *page 9*.

### **Distorted picture**

- Check the Disc for fingerprints or scratches. Clean the Disc. See *page 6*.
- Sometimes a small amount of picture distortion may appear. This is normal.

### **The picture is distorted, rolls, or is only black and white.**

- TVs have a color system standard, usually NTSC in the United States. If the Disc's or DVD Player's color system is different than your TV's color system, the picture may be distorted or colorless. Set the Player's TV TYPE to match your TV and your DVDs. See *page 38*.
- A DVD or Video CD picture may become distorted or black and white if you switch among PAL and NTSC (for TV TYPE). If so, set SMART PICTURE to STANDARD to correct the picture. See *page 36*.

### **The sound is distorted or there is no sound during Disc play.**

- Do not connect any cables from the Player to a Stereo's "PHONO IN" jack.
- Do not connect the Player's COAXIAL digital audio out jack to an analog jack on a Stereo. (Analog audio jacks are usually red and white.)

### **No sound**

- Check the audio connections. See *pages 10-14*. You only need one audio connection. See *page 9* to see what connection best suits your situation.
- Connect cables firmly to all equipment.
- Select another channel, sound source, or Auxiliary station at your Stereo or TV. See your Stereo or TV manual for details. Or, select the different sound sources or modes on the Stereo or TV until you hear sound from the Disc that is in the Player. See *pages 9-14*.
- Make sure your DOWNMIX, DIGITAL OUTPUT, and LPCM OUTPUT settings match the capabilities of your Stereo or TV. See *pages 40-42*.
- Check the DVD's Audio setting in the DVD Disc Menu and adjust as necessary.
- Deactivate mute at the DVD Player by pressing MUTE on the Player's remote.

### **Disc will not play.**

- Make sure the Disc label is facing up. If you are playing a two-sided Disc, make sure the label of the side you want to play is facing up.
- Check the Parental controls. See *pages 28-30*.
- Check the Region Code of the DVD. The DVD must be coded for All regions or Region 1 in order to play on this DVD Player. See *page 7*.
- See if the Disc is defective by trying another Disc. Make sure the Disc is not scratched or warped. Carefully clean the Disc. See *page 6*.
- Finalize CD-R, DVD+R, and DVD+RW discs before playing them on this Player.
- If you are playing a CD-R or CD-RW you made, make sure it contains at least 3 MB of data. See *page 34*.

### **An Audio CD will not play.**

- Some Audio CDs are copy protected. These discs will not play on this Player. See your retailer for options regarding non-protected Audio CDs.

### **The DVD logo does not appear on the TV after you remove a Disc.**

- Reset the DVD Player by switching it off, then on again.

### **The DVD Player does not respond to the remote control.**

- Aim the remote at the IR sensor on the front of the Player. Remove any obstacles between the Player and the remote. Move closer to the Player and try again.
- Replace the lithium battery in the remote control. See *page 8*.

### **The Player will not select some features (Angles, Subtitles, etc.).**

- The feature may not be available on the Disc. If it is not, the Ø will appear on the TV screen. Check the Disc case to see if the Disc has the feature. If the Disc does not have the feature, the Player cannot create the feature. This is not a malfunction of the Player.

The feature may not be available at the present time. Some features are only available during play, while others can be accessed only when play is stopped. Try stopping or starting playback, then try the feature again.

### **The Player does not work.**

- Disconnect the power cord from the power outlet for a few minutes. Reconnect the power cord and try to operate the Player again as usual.

### **The Player turns itself off.**

- If there is no activity at the Player or with its remote control for 15 minutes and play is stopped, the Player will go into low-power Standby mode. This is an energy-saving feature that cannot be altered. Press POWER on the Player or PLAY on the remote to turn on the Player.

### **Disc play is irregular or DVD Disc menu operation is faulty.**

- Due to the inconsistency of Disc formats provided by various Disc manufacturers, your DVD Player may require a playability enhancement or upgrade. As DVD technology has advanced, these enhancements have become both common and easy to complete. Contact Philips at 1-800-531-0039 for assistance.

## 52 Specifications

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### PLAYABLE DISCS

DVD-Video	Audio CD
Video CD	Super Video CD
Picture CD	MP3-CD
CD Recordable (CD-R)	CD Rewritable (CD-RW)
DVD Recordable (DVD+R)	DVD Rewritable (DVD+RW)

### TV STANDARD

#### PAL/50Hz

#### NTSC/60Hz

Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

### VIDEO PERFORMANCE

VIDEO Out	1Vpp---75Ω
Y Pb Pr	Y: 1.00Vpp---75Ω
	Pb: 0.7Vpp---75Ω
	Pr: 0.7Vpp---75Ω

### CABINET

Dimensions (w x h x d):	8.5 x 1.8 x 8.5 inches
Weight:	Approximately 2 lbs.

### REAR CONNECTIONS

Component Video Out	Cinch (green/blue/red)
Video Out	Cinch (yellow)
Audio Out	Cinch (white/red)
Digital Audio Out	One coaxial
	IEC958 for CDDA/LPCM/MPEG1
	IEC1937 for MPEG2, Dolby Digital, and DTS

### AUDIO FORMAT

Digital	Mpeg/ AC-3/ DTS	compressed Digital
	PCM	16, 20, 24 bits fs, 44.1, 48, 96 kHz
	MP3(ISO 9660)	24, 32, 56, 64, 96, 128, 256 kbps & variable bit rate fs, 16, 22.05, 24, 32, 44.1, 48kHz

Analog Sound Stereo

### AUDIO PERFORMANCE

DA Converter	24 bit
Signal to Noise (1kHz)	95 dB
Dynamic range (1kHz)	> 85 dB
DVD	fs 96 kHz    4 Hz -44 kHz
	fs 48 kHz    4 Hz -22 kHz
Super Video CD	fs 48 kHz    4 Hz -22 kHz
	fs 44.1 kHz    4 Hz -20 kHz
Video CD/Audio CD	fs 44.1 kHz    4 Hz -20 kHz

### LASER

Type	Semiconductor laser GaAlAs
Wavelength	650nm (DVD)
	780nm (Video CD/Audio CD)



**You will need these codes if you want a different language for Subtitles, Audio, or Disc menus. See pages 25-27.**

<b>A</b>	<b>G</b>	<b>M</b>	<b>Slovak</b> .....8375
Abkhazian .....6566	Gaelic, .....7168	Macedonian .....7775	Slovenian .....8376
Afar .....6565	Scottish Gaelic .....7176	Malagasy .....7771	Somali .....8379
Afrikaans .....6570	Gallegan .....7565	Malay .....7783	Sotho, Southern .....8384
Albanian .....8381	German .....6869	Malayalam .....7776	Sundanese .....8385
Amharic .....6577	Gikuyu, Kikuyu .....6976	Maltese .....7784	Swahili .....8387
Arabic .....6582	Greek .....7178	Manx .....7186	Swati .....8383
Armenian .....7289	Guarani .....7185	Maori .....7773	Swedish .....8386
Assamese .....6569	Gujarati .....7265	Marathi .....7782	<b>T</b>
Avestan .....6589	Hebrew .....7290	Marshallese .....7772	Tagalog .....8476
Aymara .....6590	Herero .....7273	Moldavian .....7779	Tahitian .....8489
Azerbaijani .....6665	Hindi .....7279	Mongolian .....7778	Tajik .....8471
<b>B</b>	Hiri Motu .....7285	<b>N</b>	Tamil .....8465
Bashkir .....6985	Hungarian .....7383	Nauru .....7865	Tatar .....8484
Basque .....6669	Ido .....7379	Navaho, Navajo .....7886	Telugu .....8469
Belarusian .....6678	Indonesian .....7368	Ndebele, North .....7888	Thai .....8472
Bengali .....6672	Interlingua, .....7369	Ndebele, South .....7871	Tibetan .....6679
Bihari .....6673	International .....7375	Ndonga .....7869	Tigrinya .....8473
Bislama .....6673	Interlingue 7365, 7369	Nepali .....8369	Tonga
Bokmal, .....7789	Inuktitut .....7375	Northern Sami .....7879	(Tonga Islands) .....8479
Norwegian .....6683	Inupiaq .....7384	Norwegian .....7879	Tsonga .....8483
Bosnian .....6682	Italian .....7465	Nynorsk, .....7878	Tswana .....8478
Breton .....6671	Japanese .....7486	Norwegian .....7878	Turkish .....8482
Bulgarian .....7789	Javanese .....7576	<b>O</b>	Turkmen .....8475
<b>C</b>	<b>K</b>	Occitan, Proven 7967	Twì .....8487
Castilian, Spanish 6983	Kalaallisut .....7578	Old Bulgarian, Old	<b>U</b>
Catalan .....6765	Kannada .....7583	Slavonic, Old Church	Uighur .....8571
Chamorro .....6772	Kashmiri .....7575	Slavonic .....6785	Ukrainian .....8575
Chechen .....6769	Kazakh .....7577	Oriya .....7982	Urdu .....8582
Chewa, Chichewa, .....7889	Khmer .....8287	Oromo .....7977	Uzbek .....8590
Nyanja .....9072	Kinyarwanda .....7589	Ossetian, Ossetic 7983	<b>V</b>
Chinese .....9065	Kirghiz .....7586	<b>P</b>	Vietnamese .....8673
Church Slav, .....6785	Komi .....7579	Pali .....8073	Volapuk .....8679
Slavonic .....6786	Korean .....7574	Panjabi .....8065	<b>W</b>
Chuvash .....7587	Kwanyama .....7585	Persian .....7065	Walloon .....8765
Cornish .....6779	<b>L</b>	Polish .....8076	Welsh .....6789
Corsican .....7282	Lao .....7679	Portuguese .....8084	Wolof .....8779
Croatian .....6783	Latin .....7665	Provençal .....7967	<b>X</b>
Czech .....6865	Latvian .....7686	Pushto .....8083	Xhosa .....8872
<b>D</b>	Letzeburgesch .....7666	<b>Q</b>	<b>Y</b>
Danish .....7876	Limburgan, Limburger, .....7673	Quechua .....8185	Yiddish .....8973
Dutch .....6979	Limburgish .....7678	<b>R</b>	Yoruba .....8979
Dzongkha .....6984	Lingala .....7684	Raeto-Romance 8277	<b>Z</b>
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French .....7089	Shona .....8378		
Frìsian .....7089	Sindhi .....8368		
	Sinhalese .....8373		

# 54 Limited Warranty

## Digital Video Disc Player

90 days Free Product Exchange/91 days—One Year Reduced-Cost Exchange

### WHO IS COVERED?

You must have proof of the date of purchase to exchange your product. A sales receipt or other document showing the date that you purchased the product is considered such proof.

### WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For 90 days thereafter, you may exchange the defective product for a free new or renewed product through Philips.

From 91 days to one year from the date of purchase, you will pay a preset exchange fee to obtain a new or renewed product. Follow the exchange procedures on the next page. This exchange opportunity ends one year after the date of purchase. The replacement product is covered only for the warranty period of the original product.

When the warranty on the original product expires, the warranty on all replaced products also expires.

When it is necessary for you to ship the product to Philips for exchange, you will pay the shipping costs for shipment to Philips. Philips will pay the shipping costs when returning a product to you.

### WHAT IS EXCLUDED?

Your warranty does not cover:

- shipping charges to return defective product.
- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of improper installation, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes (including but not limited to rental purposes).

### WHERE IS EXCHANGE AVAILABLE?

Warranty exchange is available in all countries where the product is officially distributed by Philips. In countries where Philips does not distribute the product, the local Philips service organization will attempt to exchange the product, although there may be a delay if the appropriate product is not readily available.

### MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of date of purchase. Attach it to the owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

### BEFORE EXCHANGING THE PRODUCT...

Please check your owner's manual before exchanging the product. Adjustments of the controls discussed there may save you time and money.

### LIMITATION OF LIABILITY AND REMEDY...

PHILIPS IS NOT LIABLE UNDER ANY CIRCUMSTANCES FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, HOWSOEVER INCURRED, EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES.

TO THE EXTENT PERMITTED BY LOCAL LAW, THE REMEDIES PROVIDED IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDY.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE/PROVINCE TO STATE/PROVINCE.

### TO EXCHANGE YOUR PRODUCT IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

FOLLOW THE INSTRUCTIONS STATED PREVIOUSLY IN THE "WHAT IS COVERED" SECTION, OR REFER TO THE EXCHANGE INSTRUCTIONS ON THE NEXT PAGE. IN THE U.S.A., PUERTO RICO, AND U.S. VIRGIN ISLANDS, ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE SPECIFICALLY DISCLAIMED, AND TO THE EXTENT INCONSISTENT WITH LAW OF THE LOCALITY OF THE USER, LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS WARRANTY. BECAUSE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY MAY LAST, THIS LIMITATION MAY NOT APPLY TO YOU.

### TO EXCHANGE A PRODUCT IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-531-0039 (English or Spanish Speaking)

In Canada, this warranty is given in lieu of all other warranties. There are no other warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose.

### REMEMBER...

Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL# \_\_\_\_\_

SERIAL# \_\_\_\_\_

## Limited Warranty (cont'd) 55

### EXCHANGE INSTRUCTIONS

To exchange your product with Philips (per the warranty conditions stated previously), remember:

- If you exchange the product within 90 days of the original purchase, there is no cost to you.\*
- If you exchange the product more than 90 days after but less than one year after the day of original purchase, contact Philips at 1-800-531-0039 to determine the preset cost for exchange.
- If you do not have your original sales receipt, or if you have any questions, call Philips at 1-800-531-0039.

To obtain a replacement product from Philips:

1. Contact Philips at 1-800-531-0039 to determine the cost for exchange.
2. Complete the Exchange Form below.
3. Pack the product and its accessories in the original box or a suitable alternative. You will receive replacement accessories with your replacement product.  
For packing details, call Philips at 1-800-531-0039.
4. Put the completed Exchange Form, a copy of the original sales receipt, and the proper payment amount into an envelope. **DO NOT SEND CASH.** Do not staple or clip these items together. Label the envelope "Return Documents Enclosed." Place this envelope in the box with the product.
5. Seal the box with packing tape and return the product via United Parcel Service (UPS), insured and freight prepaid, to:

Philips Recovery Center  
Rojas 6  
12420 Mercantile Avenue  
El Paso, TX 79928  
ATTENTION: DVD PLAYER EXCHANGE

A replacement will be sent to you via UPS within 48 business hours of Philips' receipt of the product.

\*When it is necessary for you to ship the product to Philips for exchange, you will pay the shipping costs for shipment to Philips. Philips will pay the shipping costs when returning a product to you.

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### EXCHANGE FORM

**Your Address (street address to which replacement should be delivered, no P.O. boxes allowed):**

Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

Apt. #: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_

Zip Code/Postal Code: \_\_\_\_\_

Phone (day): \_\_\_\_\_

Phone (night): \_\_\_\_\_

**Exchange Fee:** \_\_\_\_\_ **+ Sales Tax:** \_\_\_\_\_ **= Total:** \_\_\_\_\_

**Method of Payment:** (Check one. Please, no cash or CODs.)

_____ Check/Money order	Check/Money order No. _____	_____
	Account number	Expiration date
_____ American Express	_____	_____
_____ Visa	_____	_____
_____ Novus/Discover	_____	_____
_____ Mastercard	_____	_____

**Signature:** \_\_\_\_\_

Detailed reason for return, use additional paper if necessary:

Model Number \_\_\_\_\_ Serial Number \_\_\_\_\_

**Remember, the return box should include the following:**

- The product,
- Completed Exchange Form and sales receipt,
- Accessories supplied with the product, and
- Payment, if applicable.

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